Revision

on Lessons 1& 2



مراجعة عامة على الدرسين الأول و الثانى فى ورقة واحدة

Lesson 1: Explorer in Action

1

Mr. Kartik sawhney

- Mr. Kartik Sawhney is a National Geographic Explorer.
- He's a computer expert.
- He uses technology to help people of determination.
- He creates applications that provide access to visual content to the blind and visually impaired.

2

I-Stem platforms

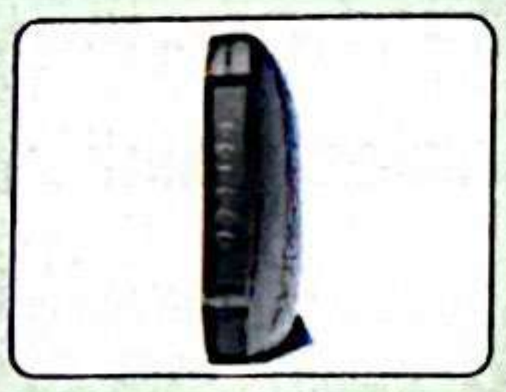
- The I-Stem platform provides software that changes digital texts into a format.
- A person who can't read might upload the text to I-Stem website.
- It includes employment opportunities for people of determination.

Lesson 2: Computer network devices

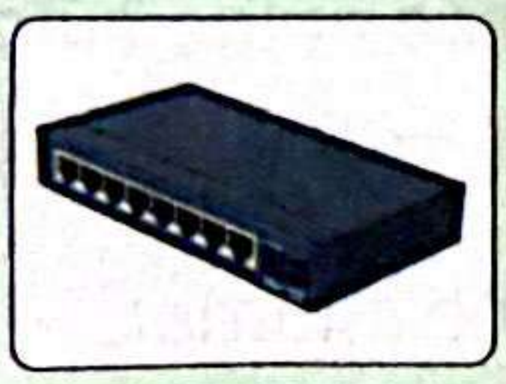
1

The components of a computer network

MODEM



SWITCHES



- Switches are intelligent.

2

Artificial intelligence (AI)

- It is a comprehensive term for computer application that perform complex tasks that simulate the thinking of the humans.
- The machine can give answers to the data provided.
- **AI** works to imitate sounds when provided with the tone of voice of an actual human being.

Revision
on Lessons 3 & 4

مراجعة عامة على الدرسين الثالث و الرابع فى ورقة واحدة



Lesson 3: Technology and artificial intelligence (AI)

1

Augmented reality

- Augmented reality (AR) combines the real world with a virtual world.
- Augmented reality can be done through a smartphone camera or a tablet.
- AR helps students become active participants in learning.

2

Virtual reality

- Virtual reality (VR) is a virtual 3-D environment.
- It allows users to explore and interact with the surroundings.
- To experience VR, users often wear VR headset that blocks out the real world.

Lesson 4: Evaluating cutting-edge technology

1

Reliable cutting edge technology

- Cutting-edge technology is defined as the latest and most advanced version of a service or product.
- Cutting-edge technology has transformed life in ways that were unimaginable.
- Artificial intelligence, augmented reality and virtual reality are examples of cutting-edge technology.

2

User experiences

- User experiences is how to use the product and interact with it.
- It is how to evaluate the experience.
- It is often broken into different areas, and can be positive or negative.

Revision

on Lessons 5 & 6

مراجعة عامة على الدرسين الخامس و السادس في ورقة واحدة



Lesson 5: Digital research skills

1

Database

- They're a collection of information which are typically stored in a computer system.
- They can be accessed, for free, through your school.
- You can search for information from magazines and newspapers through them.
- Use a key word search when you search any database.

2

Library catalogs

- It is a database which includes all the items owned by a library.
- It includes recently published books, including e-books with the most recent research about a subject.

Lesson 6: Mobile devices

1

Types of mobile devices

- Smartphones
- Tablets
- E-readers

- Smartphones and tablets can be used to surf the web and check email, similar to PCs.
- Mobile devices have hight quality cameras, speakers, and screen resolution.

2

How mobile devices can improve the lives of people of determination

- It can provide people of determination with educational services at home.
- A speech assistance app can help a non-verbal student participate in a class.
- Assistive software can help people of determination in the workplace to manage time and tasks.

Revision

on Lessons 7 & 8



مراجعة عامة على الدرسين السابع و الثامن فى ورقة واحدة

Lesson 7: Operating systems

1

Operating systems

- An operating system is the software that manages a computer's functions.
- It includes accessible devices such as screen readers and magnifiers.
- It runs computer's software and hardware.
- It allows a user to communicate with the computer easily.

2

Cutting-edge Operating systems

- Cutting-edge technologies are other types of operating systems.
- The Robot operating system (Ros) is an open-source software.
- The Ros used for building robot applications.

General Exercises
On Lesson 2



▸ If you got 🔴 you need to revise the lesson again.

قم بتقييم نفسك بالعلامات الموضحة وإذا حصلت على 🔴 (غير جيد) قم بمراجعة الدرس مرة أخرى من الصفحة السابقة.

🔵 ممتاز	🟢 جيد جدا
🟡 جيد	🔴 غير جيد

1 Choose the correct answer from a, b, c or d.

1. .... networks connect without wiring.
   a. Historical b. Imitate c. Wireless d. Complex
2. .... are groups of devices or things that are connected to each other for a common purpose.
   a. Explorers b. Networks c. Computers d. Keyboard
3. .... converts the signal from the internet service provider (ISP) into a digital signal.
   a. Port b. Modem c. Router d. Switch
4. .... performs complex tasks that simulate the thinking and performance of the human element.
   a. VR b. AI c. AR d. ICI
5. .... sends data to a specific device over a network.
   a. Modern b. Switch c. Server d. None of them
6. .... are devices that can be connected to the internet.
   a. Desktop computers b. Laptops
   c. Smart devices d. All of them
7. Wired networks use physical wiring and cables which are plugged into .... on devices.
   a. ports b. modem c. routers d. switches
8. A .... is a device that connects a local area network (LAN) to the internet.
   a. modem b. laptop c. router d. server
9. The abbreviation of Artificial intelligence is ....
   a. ALT b. IA c. AI d. AR

2 Put (✓) in front of correct sentence and (x) in front of the wrong one.

1. Computer networks connect computers with each other, to share important information and data. ( )
2. Wireless networks use physical wiring and cables which are plugged into ports on devices. ( )
3. Devices can be connected without wiring (wireless or Wi-Fi). ( )

4. A switch is a device that connects a local area network to the internet. ( )
5. Modem converts the signal from the internet service provider (ISP) which transforms into a digital signal that can be read by devices. ( )
6. Switches help to make connections easier and faster. ( )
7. VR works to imitate sounds when provided with the tone of voice of an actual human being. ( )

3 Read and write the name of the device.

1. It's a device that connects a local area network (LAN) to the internet. (................)
2. It helps to make connections easier and faster. (................)

4 Read and circle the correct one.

1. (AI – EKB) is a comprehensive term for computer applications that perform (simple – complex) tasks that simulate the thinking and performance of the human element.
2. If you want to make a network, then you need to have a (modem-refrigerator) that connects (local – wide) networks to the internet and you can connect the network in two ways wired and wireless.

5 Read and circle the correct usage.

1. AI :
   - artificial intelligence
   - artificial information
2. Wired network :
   - Uses wireless signals.
   - Uses physical wiring and cables.

قم بتلوين الدائرة باللون المناسب لمستواك.



Accumulative Test

On Lessons 1 & 2



اختبار تراكمى على الدرسين الأول والثانى

1 Choose the correct answer from a, b, c or d.

1. 🕮 Mr. Kartik Sawhney is a/an .... at the National Geographic Organization.
   a. ecologist b. biologist c. explorer d. doctor
2. 🕮 Mr. Sawhney has been able to create applications that convert .... into audio frequencies.
   a. sounds b. writings c. graphs d. symbols
3. 🕮 The .... deals with governments, technology universities, to provide services and access to places of those organizations.
   a. I-Stem platform b. Google Chrome
   c. EKB platform d. Internet explorer
4. The .... converts the signal from the internet service provider (ISP) into a digital signal.
   a. Port b. Modem c. Router d. Switch
5. The .... is one of the platforms that provides counseling and employment opportunities for people of determination.
   a. facebook b. I-Stem c. EKb d. None of them
6. .... are devices that can be connected to the internet.
   a. Desktop computers b. Laptops c. Smart devices d. All of them

2 Put (✓) in front of the correct sentence and (×) in front of the wrong one.

1. Mr. Sawhney has been able to create applications that convert sound into audio frequencies. ( )
2. 🕮 People of determination do not receive support on how to write resumes and prepare for job interviews. ( )
3. Wireless networks use physical wiring and cables which are plugged into holes on devices. ( )
4. 🕮 (AI) is a comprehensive term for computer applications that perform complex tasks that simulate the thinking and performance of the human element. ( )

3 Read and write the name of the device.

1. Device that connects local area network to the internet. (................)
2. A group of devices or things that are connected to each other for a common purpose. (................)

يمكنك المراجعة باستمرار (تراكمية) من خلال الصفحة السابقة.

General Exercises

On Lesson 3



● ممتاز ● جيد جدا
● جيد ● غير جيد

▸ If you got ● you need to revise the lesson again.

قم بتقييم نفسك بالعلامات الموضحة وإذا حصلت على ● [غير جيد] قم بمراجعة الدرس مرة أخرى من الصفحة السابقة

1 Choose the correct answer from a, b, c or d.

1. .... feel futuristic, but they are already being used in education and everyday life.
   a. Augmented reality b. Virtual reality
   c. Artificial intelligence d. all of them

2. 📖 .... combines the real world with a virtual world by adding images using computers.
   a. Augmented reality b. VR
   c. Artificial intelligence d. both (a) and (b)

3. This can be done through a smartphone camera or a tablet and will show a .... of what looks like the real world.
   a. 3-D model b. 2-D model c. 4-D model d. 5-D model

4. 📖 .... helps students become active participants in learning and makes learning more memorable.
   a. RV b. AR c. VR d. AI

5. .... is a virtual 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.
   a. RV b. AR c. VR d. AI

6. 📖 .... is used to unlock your phone with facial recognition.
   a. AI b. AR c. VR d. 3D

7. VR Users often wear a .... that blocks out the real world and provides views that immerse the user in another world.
   a. headphone b. headset c. VR headset d. none of them

8. 📖 Augmented reality can be done through a ....
   a. tablet b. computer c. hardware d. disk

9. In the classroom, ... can take you to a world where insects and atoms are bigger than you, so that you can study them closely.
   a. Augmented reality b. Virtual Reality
   c. VR d. both (b) and (c)

10. A/An .... help disabled individuals through using virtual assistants to accomplish everyday tasks.
    a. augmented reality b. virtual reality
    c. artificial intelligence d. none of them

2 Put (✓) in front of the correct sentence and (×) in front of the wrong one.

1. Using AR, students in a math class can point their smartphone camera at a flat surface and project a 3-D image like a cube or cylinder onto the surface. ( )
2. Using windows helps students become active participants in learning and makes learning more memorable. ( )
3. Users often wear a normal headphone that blocks out the real world and provides views that immerse the user in another world. ( )
4. Artificial intelligence (AI) is the ability of the computer to think and learn. ( )
5. Futuristic technologies cannot improve the lives of people of determination. ( )
6. From the uses of AR, someone with a visual impaired can see their family members up close. ( )
7. An AR app shows you how new furniture will look in your house. ( )
8. Disabled individuals can use virtual assistants to make phone calls. ( )

3 Read and write the name of app or tool.

1. Abbreviation of AI (................)
2. Abbreviation of VR (................)
3. Abbreviation of AR (................)
4. It is the ability of computer to think, learn and deduce. (................)
5. It blocks out the real world and provides views that immerse the user in another world. (................)

4 Read and circle the correct one.

- From examples of **(AR – GPS)**, students in a math class can point their smartphone camera at a flat surface and project a **(5-D image – 3-D image)** like a cube or cylinder onto the surface, as if the figure is in front.

قم بتلوين الدائرة باللون
المناسب لمستواك.



General Exercises
On Lesson 4

ممتاز 🔵 جيد جدا 🟢
جيد 🟡 غير جيد 🔴

▶ If you got 🔴 you need to revise the lesson again.

قم بتقييم نفسك بالعلامات الموضحة وإذا حصلت على 🔴 (غير جيد) قم بمراجعة الدرس مرة أخرى من الصفحة السابقة.

1 Choose the correct answer from a, b, c or d.

1. .... is the latest and most advanced version of a service or product.
   a. Augmented reality — b. Cutting-edge technology
   c. Artificial intelligence — d. Assistive technology

2. 📖 .... helps people of determination, for example, screen magnification software and hearing aids.
   a. Augmented reality — b. Cutting-edge technology
   c. Artificial intelligence — d. Assistive technology

3. Screen magnification software, hearing aids, and programs that turn speech to text and text to speech are examples of ....
   a. augmented reality — b. cutting-edge technology
   c. assistive technology — d. artificial intelligence

4. 📖 Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of ....
   a. augmented reality — b. cutting-edge technology
   c. artificial intelligence — d. assistive technology

5. 📖 Smart gloves that empower deaf people to translate their signs in real time to spoken or text output considered ....
   a. augmented reality — b. cutting-edge technology
   c. assistive technology — d. artificial intelligence

6. 📖 .... describes how people use the product and interact with it, and how they evaluate their experiences.
   a. User experiences — b. Meeting needs
   c. Both of them — d. None of them

7. .... categories are ways of technology evaluation.
   a. Accessible — b. Desirable
   c. Findable — d. all of them

2 **Put (✓) in front of the correct sentence and (×) in front of the wrong one.**

1. Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of assistive technology. ( )
2. 📖 Cutting-edge technology is the latest and most advanced version of a service or product. ( )
3. Cutting-edge technology helps people of determination. ( )
4. User experiences are ways of technology evaluation. ( )
5. Meeting needs improve someone's independence and consquently inclusion in society. ( )

3 📖 **Read and write the categories.**

(Findable – Credible – Usable – Accessible – Valuable)	
Does this product improve my life or help me learn?	....
If there is an issue with the project or service, can I find the solution?	....
Are the company and its products trustworthy?	....
Is it easy to use?	....
Is it accessible for people of determination?	....

4 **Read and circle the correct usage.**

1. VR :
   - virtual reality
   - augmented reality
2. AI :
   - artificial intelligence
   - artificial information
3. Meeting needs :
   - It is interlinked with the development of products and services.
   - It isn't interlinked with the development of products and services.

قم بتلوين الدائرة باللون المناسب لمستواك. ◯



Accumulative Test

On Lessons 1, 2, 3 & 4



اختبار تراكمى على الدروس من الدرس الأول للدرس الرابع

1 Choose the correct answer from a, b, c or d.

1. .... is the latest and most advanced version of a service or product.
   a. Augmented reality
   b. Cutting edge technology
   c. Artificial intelligence
   d. Assistive technology

2. Smart gloves that empower deaf people to translate their signs in real time to spoken or text output is considered ....
   a. augmented reality
   b. cutting edge technology
   c. assistive technology
   d. artificial intelligence

3. .... receive support on how to write a resume and prepare for job interviews by using I-Stem platform.
   a. Hearing impaired people
   b. People of determination
   c. Blind and visually impaired people
   d. Normal people

4. .... is a comprehensive term for computer applications that perform complex tasks that simulate the thinking and performance of the human element.
   a. AL
   b. IA
   c. AI
   d. LA

5. .... helps students become active participants in learning and makes learning more memorable.
   a. RV
   b. AR
   c. VR
   d. RA

2 Put (✓) in front of the correct sentences and (×) in front of the wrong one.

1. Mr. Sawhney creates applications that not allow blind and visually impaired people to access visual content. (   )
2. Devices can be connected without wiring by using radio waves (wireless or Wi-Fi). (   )
3. Cutting-edge technology helps people of determination with tasks they find challenging. (   )
4. Augmented reality from the examples of Cutting-edge technology. (   )

3 Read and correct words between brackets.

1. (Meeting needs) describes how people use and interact with a product and how they evaluate their experiences. (...............)
2. (Programing languages) is the newest and most advanced version of a service or product. (...............)
3. AI, AR, and VR are examples of (Assistive technology). (...............)

يمكنك المراجعة باستمرار (تراكمية)
من خلال الصفحة السابقة.

General Exercises
On Lesson 5

ممتاز | جيد جدا
جيد | غير جيد

▸ If you got ● you need to revise the lesson again.

قم بتقييم نفسك بالعلامات الموضحة وإذا حصلت على ● (غير جيد) قم بمراجعة الدرس مرة أخرى من الصفحة السابقة.

1 Choose the correct answer from a, b, c or d.

1. .... are some of the most used word processing commands.
   a. Copy b. Paste
   c. Cut d. All of them
2. 📖 .... can help people to search internet websites based on the keywords and phrases.
   a. Search engines b. Database
   c. Library catalogs d. Google chrome
3. A library catalog is a/an .... which includes all items owned by the library.
   a. heading b. engine
   c. database d. subject
4. .... are collections of information which are typically stored in a computer system and can be accessed, for free through a school or library.
   a. Search engines b. Databases
   c. Library catalogs d. Google chrome
5. 📖 You can search for information from magazines and newspapers through the ....
   a. search engines b. databases
   c. library catalogs d. Google Chrome
6. The .... is an example of a general database which covers many subjects.
   a. Facebook b. Twitter
   c. EKB d. Instagram
7. The EKB results are credible and ....
   a. inaccurate b. narrow
   c. accurate d. unclear
8. 📖 To get useful search results and to narrow your search you can ....
   a. search by author name
   b. search title of the journal
   c. search by specifying dates
   d. all of them
9. 📖 A .... is a database which includes all the items owned by a library.
   a. search engine b. database
   c. library catalog d. Google Chrome

2 Put (✓) in front of the correct sentence and (×) in front of the wrong one.

1. A library catalog is a database which includes all the items owned by a library. (   )
2. There is only one way to get useful search results and to narrow your search you can. (   )
3. Search engine is a good place to search for information from magazines, and newspapers. (   )
4. Databases are collections of information which are typically stored in a computer system. (   )
5. When doing research via internet, use your evaluation skills to ensure the content you select is credible and accurate. (   )

3 Complete the sentences with the appropriate words in brackets.

(Databases – Search engine – paste – library catalogs)

1. .... help people to search internet websites based on the key words and phrases.
2. .... are a collection of information which are typically stored in a computer system and can be accessed, for free, through a school or library.
3. A .... is a database which includes all the items owned by a library.
4. Copy, ... and cut are some of the most commonly used word processing commands.

4 Read and correct words between brackets.

1. **(Databases)** help people to search internet websites based on the key words and phrases. (................)
2. **(Search engine)** is a database which includes all the items owned by a library. (................)
3. **(Search engine)** is a good place to search for information from journals, newspapers, and reference books. (................)

قم بتلوين الدائرة باللون
المناسب لمستواك.



General Exercises

On Lesson 6



▸ If you got 🔴 you need to revise the lesson again.

قم بتقييم نفسك بالعلامات الموضحة وإذا حصلت على 🔴 أكثر جداً قم بمراجعة الدرس مرة أخرى من الصفحة السابقة

🔵 ممتاز 🟢 جيد جدا
🟡 جيد 🔴 غير جيد

1 Choose the correct answer from a, b, c or d.

1. .... are types of mobile devices.
   a. Smartphones b. Tablets
   c. E-readers d. all of them

2. 📖 .... surf the web and check email, similar to PCs.
   a. Smartphones b. Tablets
   c. both (a) and (b) d. E-readers

3. .... look like tablets but are mainly used for reading books.
   a. Smartphones b. Tablets
   c. PC computers d. E-readers

4. 📖 ....often have high-quality cameras, speakers, and screen resolution.
   a. Smartphones b. Tablets
   c. both (a) and (b) d. E-readers

5. 📖 These handheld computers (mobile devices) ....
   a. are portable
   b. can access the internet
   c. are held in landscape or portrait mode
   d. all of them

6. Scanning QR codes to access content-related videos, audios, and texts is one of the advantages of using mobile phones in ....
   a. writing b. education
   c. traveling d. playing games

7. 📖 .... installed on mobile devices is providing new solutions.
   a. Cutting-edge technology b. Gaming apps
   c. Assistive technology d. None of them

8. .... can help a non-verbal students participate in a class.
   a. Whatsapp b. Facebook app
   c. Speech assistance app d. Telegram app

2 Put (✓) in front of the correct sentence and (×) in front of the wrong one.

1. One of the disadvantages of the mobile is the difficulty of connecting to the internet. ( )
2. Many mobile devices function by touch. ( )

3. Mobile devices offer higher engagement levels for students and extend learning beyond the classroom. ( )
4. Scanning QR codes to access content-related videos, audios, and texts isn't useful in education. ( )
5. Small screens can be a problem of reading texts and viewing complex graphics difficult. ( )
6. Without cutting-edge technology products, people of determination face challenges accessing education, healthcare, and employment. ( )
7. Assistive software on tablets and smartphones can't help people of determination. ( )

3 Complete the following sentences with the appropriate words in brackets.

(Assistive software - Tablets and smartphones - Mobile devices - Cutting-edge technology)

1. .... offer higher engagement levels for students and extend learning beyond the classroom.
2. .... surf the web and check email, similar to PCs.
3. .... can help people of determination with educational services at home.
4. .... on tablets and smartphones can help people of determination in the work place to manage time and tasks.

4 Read and correct words between brackets.

1. Small screens can make reading texts challenging and viewing complex graphics (easy). (................)
2. (Assistive technology) installed on mobile devices is providing new solutions. For example, this technology can connect homebound individuals with their educational provider. (................)
3. Scanning (AR codes) to access content-related video, audio, and texts is one of the advantages of using mobile phones in education. (................)

قم بتلوين الدائرة باللون
المناسب لمستواك. ◯



Accumulative Test

On Lessons 1, 2, 3, 4, 5 & 6

اختبار تراكمى على الدروس من الدرس الأول للدرس السادس



1 Choose the correct answer from a, b, c or d.

1. .... receive support on how to write a resume and prepare for job interviews by using I-Stem platform.
   a. Hearing impaired people
   b. People of determination
   c. Blind and visually impaired people
   d. Normal people

2. The .... are intelligent.
   a. Port
   b. Modem
   c. Router
   d. Switches

3. .... is used to unlock your phone with facial recognition and to personalize social media content and search results.
   a. AI
   b. AR
   c. VR
   d. RA

4. There are different technology evaluation tools we can use such ....
   a. user experiences
   b. meeting needs
   c. both (a) and (b)
   d. none of them

5. The .... is a good place to search for information from journals, newspapers and reference books.
   a. search engine
   b. database
   c. library catalog
   d. google chrome

2 Put (✓) in front of the correct sentence and (×) in front of the wrong one.

1. Search engine is a good place to search for information from journals, newspapers and reference books. ( )
2. Many mobile devices function by touch. ( )
3. Artificial intelligence (AI), augmented reality (AR), and virtual (VR) are examples of assistive technology. ( )
4. Wireless networks use physical wiring and cables which are plugged into holes on devices. ( )
5. Library catalogs is a database which includes all the items owned by a library. ( )

3 Read and circle the correct one.

1. Cutting-edge technology installed on mobile devices is **(preventing - providing)** new solutions. It can provide people of determination with educational services at **(home - school)**.
2. Tablets, smartphone and **(smart TV - E-reader)** are types of mobile devices.

يمكنك المراجعة باستمرار (تراكمية)
من خلال الصفحة السابقة.

General Exercises
On Lesson 7



▸ If you got 🔴 you need to revise the lesson again.

قم بتقييم نفسك بالعلامات الموضحة وإذا حصلت على 🔴 (غير جيد) قم بمراجعة الدرس مرة أخرى من الصفحة السابقة

🔵 ممتاز 🟢 جيد جدا
🟡 جيد 🔴 غير جيد

1 Choose the correct answer from a, b, c or d.

1. A/An .... is the software that manages computer's functions.
   a. operating system b. Windows Explorer
   c. e-readers d. Google Chrome

2. 📖 .... is the operating system functions.
   a. Runs a computer's software b. Runs a computer's hardware
   c. Open - source. d. both a and b

3. Most computers come pre-loaded with a/an ....
   a. operating system b. Windows explorer
   c. e-readers d. Google Chrome

4. 📖 .... computers run on macOS.
   a. Apple b. Ipad c. Android d. Windows

5. The most popular mobile OSs are ....
   a. Android b. Apple iOS c. both a and b d. Windows

6. .... uses open-source software.
   a. Android b. Apple iOS c. Both (a) and (b) d. Windows

7. 📖 .... means a person can change and read the programming code.
   a. Open-source software b. Closed-source software
   c. Both a and b d. None of them

8. Apple iOS is ....
   a. open-source software b. closed-source software
   c. both a and b d. none of them

9. .... is open-source software used for building robot applications.
   a. ROS b. RES c. OSR d. OCR

10. .... refers to instructions to a computer that are given in code.
    a. ROS b. Programming Language
    c. Operating system d. Both a and c

2 Put (✓) in front of the correct sentence and (×) in front of the wrong one.

1. Operating system is used for managing computer's functions. ( )
2. Android runs on mac devices. ( )
3. 📖 An operating system includes accessible devices such as printer scanner. ( )

4. Apple computers run on windows operating system. (
5. The most popular mobile OSs are Android and Apple iOS. (
6. Microsoft Windows runs the most computers worldwide. (
7. Apple computers run on macOS. (
8. Mobile devices have mobile operating systems. (
9. Windows is open-source software for building robot applications. (
10. HTML is commonly chosen for website creation. (

3 Match from column (A) with the suitable in column (B).

(A)		(B)
1. macOS	☐	a- The operating system used on Apple mobile devices.
2. iOS	☐	b- The operating system used on Microsoft PCs.
3. Android	☐	c- The operating system used on mobile devices other than Apple products.
4. Windows	☐	d- The operating system used on Apple PCs.

4 Read and write the name of the app or tool.

1. Software that manages a computer's functions, such as memory, drives, printers, and other devices. (..........
2. It is an open-source software used for building robot applications. (..........
3. The most popular mobile OSs and it uses open source software. (..........

5 Read and circle the correct one.

1. Both Android and iOS perform the **(same - different)** basic functions, such as messaging, web access, video chat and touch function.
2. Programing languages are usually **(open - closed)** source. Anyone can see, modify, or distribute the code.

قم بتلوين الدائرة باللون
المناسب لمستواك.



Monthly Assessements

التقيمات الشهرية



October Test

1 Choose the correct answer from a , b, c or d.

1. Mr. Kartik Sawhney uses .... to empower people of determination.
   a. technology b. construction tools c. writing tools d. paint tools
2. Computer network connects computers with each other to .... information.
   a. remove b. share c. cut d. delete
3. .... helps students become active participants in learning and makes learning more memorable.
   a. RV b. AR c. VR d. RA
4. Screen magnification software, hearing aids, and programs that turn speech to text and text to speech are examples of ....
   a. augmented reality b. cutting edge technology
   c. assistive technology d. artificial intelligence
5. When doing research via internet, use your evaluation skills to ensure the content you select is ....
   a. credible b. accurate c. unbiased d. all of them
6. .... look like tablets but are mainly used for reading books.
   a. Smartphones b. Tablets c. PC computer d. E-readers
7. ....runs a computer's software and hardware and acts as a translator.
   a. Operating system b. Windows Explorer
   c. E-readers d. Google Chrome
8. HTML describes the structure of a web page and consists of a series of elements such as ....
   a. headings b. paragraphs c. links d. all of them

2 Put (✓) in front of the correct sentence and (×) in front of the wrong one.

1. People of determination do not receive support on how to write resumes and prepare for job interviews. (   )
2. Switches help to make connections easier and faster. (   )
3. Artificial intelligence (AI) is the ability of a machine such, as a computer, to think and learn. (   )
4. EKB is an example of database which covers many subjects. (   )
5. One of the disadvantages of the mobile is the difficulty of connecting to the internet. (   )
6. Small screens can make reading texts challenging and viewing complex graphics difficult. (   )
7. Operating system is the software that manages a computer's functions, such as memory, drives, printers, and other devices. (   )

October Revision

1 Summary

Lesson 2

- **Networks:** They are groups of devices or things that are connected to each other for a common purpose.
- **Types of networks:**
  1. Wired networks: They use cables that are plugged into ports.
  2. Wireless networks: They connect devices without wiring using Wi-Fi.
- **Network devices:**
  1. MODEM:
     a. Connects a local area network (LAN) to the internet.
     b. Converts (transforms) the signal from the ISP into a digital signal.
     c. Connects users to the internet
  2. SWITCHES:
     - They send data to a specific device over a network, so it makes connections easier and faster.
     - Switches are intelligent devices.



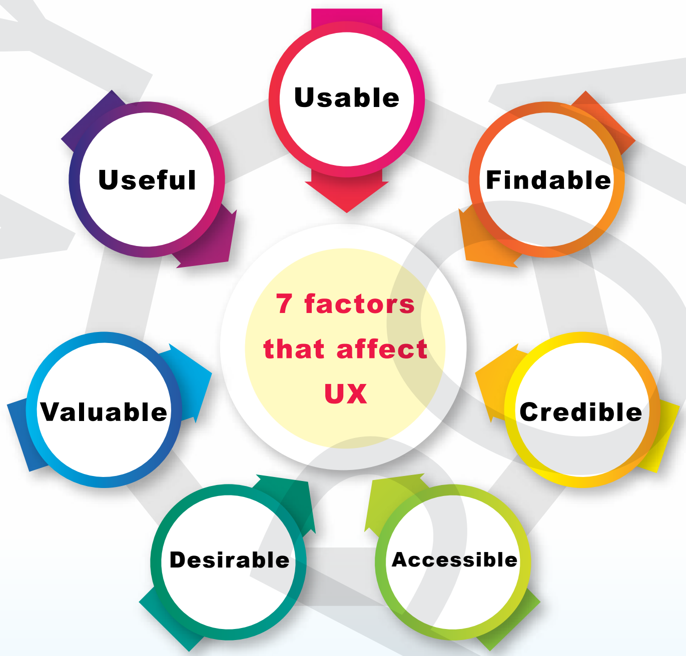
- **Artificial Intelligence (AI):**
  - A comprehensive term for computer applications that perform complex tasks that simulate the thinking and performance of the human element.
  - AI also works to imitate sounds when provided with the tone of voice of an actual human being.
- **Examples:**
  - Writing an article on a topic.
  - Inquiring about historical events and their sequence.

Lesson 3

- **Virtual reality:** It is a virtual 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.
- To experience VR, users wear a VR headset that blocks out the real world and immerse the user in another world.
- **Examples on VR:**
  1. It can take you to a museum thousands of miles away or to a historical site.
  2. In classrooms, VR allows close study of enlarged insects and atoms.
- **Augmented reality (AR):** It combines the real world with a virtual world by adding images using computers.
  - It shows a 3-D model of what the real world looks like.
  - AR helps students become active participants in learning and makes learning more memorable.
- **Examples on AR:**
  1. In math class, students can project 3-D images like cubes or cylinders onto a flat surface using their smartphones
  2. Visually impaired people can use AR to see their family members up close.
- **Artificial intelligence (AI):** It is the ability of a computer, to think, learn, and deduce.
  - Computer learns by analyzing the available examples.
- **Example on AI:**
  - It predicts the word you will write from words you have written previously.
  - AI is used to unlock your phone with facial recognition.
  - Disabled individuals can use virtual assistants powered by AI to accomplish everyday tasks, such as making phone calls and navigating their computer.

Lesson 4

- **Cutting-edge technology:** Is the latest and most advanced version of a service or product.
  - AI, AR, and VR are Cutting-edge technologies.
- **Assistive technology** helps people of determination.
- **Examples of Assistive technology:**
  1. Screen magnification software.
  2. Hearing aids
  3. Programs that turns speech-to-text and text-to-speech.
- **Smartgloves:** They empower deaf people to translate their signs in real time to spoken or text output.
- **User experiences:** It is how to use the product, interact with it, and evaluate their experiences.
  - It can be positive or negative.
- **User experience** is interlinked with the development of products and services.
- The goal of cutting-edge assistive technology is to improve someone's independence and to be included in society.



Lesson 5

- Copy, paste, and cut are some of the most commonly used word processing commands
- **Search engines** help people search Internet websites based on the keywords and phrases.
- They are user-friendly, very fast, and often give many results.
- **Databases**: They are collections of information which are typically stored in a computer system and can be accessed for free through a school.
- **A database** is a good place to search for information from journals, newspapers, and reference books.
- **EKB** is an example of a general database, the results will be credible and accurate.
- **Library catalog**: It is a database which includes all the items owned by a library. **such as**, the catalog of the Library of Alexandria.
- When you search any database:
  1. Use a keyword search.
  2. Review the results.
  3. You can limit a search by using fields like author, journal title and dates.

Lesson 7

- **Operating system (OS)**: It is the software that manages a computer's functions, such as memory, drives, printers, and other devices.
- OS manages accessible devices, such as screen readers and magnifiers.
- OS runs a computer's software and hardware.
- OS acts as a translator; it translates user communication to computer languages.
- Most computers come pre-loaded with an operating system.

Computer operating systems:

Microsoft Windows	MacOS
• On most computers worldwide.	• It runs on Apple computers.

Mobile operating systems:

Android	Apple iOS
• Used on open-source software.	• Used on the iPhone and iPad. • Closed-source operating system.

- **Open-source software:** means a person can change and read the programming code.
- **Closed-source software:** it can't be seen or changed by the public.
- Both Android and iOS perform the same basic functions, such as messaging, web access, video chat and touch function

Cutting-edge operating systems:

1. **The Robot Operating System (ROS)**: is an open-source software for building robot applications.
2. Operating systems powering self-driving cars

- **Programming languages**: Instructions to a computer are given in codes.
- Programming languages have evolved from simple machine language (binary) to high-level human-like languages.
- Programming languages are usually open-source.
- HTML is used to create website.
- HTML is easy to learn, to make change and compatible with all the major web browsers.

Exercises on Lesson 2

1 Choose the correct answer:

1 .... are group of people or things that are connected to each other.
a. Modems b. Networks c. Routers

2 .... perform(s) complex tasks that simulate the thinking and performance of people.
a. Artificial intelligence b. Holograms c. Switches

3 Computer networks are used to .... information and data.
a. create b. delete c. share

4 .... networks connect devices using Wi-Fi.
a. Wired b. Wireless c. Both of them

5 Wired networks connect devices using ....
a. Wi-Fi b. radio waves c. cables

6 .... is a device that connects a local area network (LAN) to the internet.
a. Artificial intelligence b. Modem c. Server

7 AI is an abbreviation for ....
a. Automated Intelligence b. Advanced Innovation
c. Artificial Intelligence

8 .... are intelligent devices that pass information to a specific device over a network.
a. Switches b. Hubs c. Modems

9 A .... converts the signal from the internet service provider (ISP) into a digital signal.
a. modem b. router c. switch

10 .... can imitate sounds when provided with the tone of voice of an actual human being.
a. A modem b. Artificial intelligence c. Switches

2 Put (✓) or (✗):

1. Networks are groups of people or things that are connected to each other ( )
2. Wireless networks connect devices with physical wiring and cables. ( )
3. There is only one way to connect computers to a network, using cables. ( )
4. Computers don't need network connection devices to transfer data. ( )
5. Artificial intelligence can imitate the sounds of people. ( )
6. Switches are intelligent devices. ( )
7. Modem is a device that converts the signal from ISP into a digital signal. ( )
8. A modem sends data to a specific device on the network. ( )
9. Wired networks use physical cables which are plugged into ports. ( )
10. Switches direct data to specific devices, making connections easier and faster. ( )
11. We can connect devices to a network without wiring. ( )
12. A router works as a gateway that connects a computer to an internet service provider (ISP). ( )

3 Complete the following sentences using the words between the brackets:

(intelligent - router - specific - Wired - AI)

1. .... networks connect devices using cables.
2. Switches send data to a(an) .... device on the network.
3. A .... works as a gateway to connect devices to the internet.
4. Switches are .... devices.
5. .... can imitate sounds of people by providing a tone of actual people.

4 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 AI	a. connects a modem to different networks.
2 A router	b. are groups of people or things that are connected together.
3 A switch	c. is a hole on devices where cables are plugged in.
4 Networks	d. computer applications that simulate the thinking and performance of people.
5 A port	e. is an intelligent device that send data to a specific device on the network.

1 .... 2 .... 3 .... 4 .... 5 ....



Exercises on Lesson 3

1 Choose the correct answer:

1. .... combines the real world with a virtual world by adding computer-generated images.
   a. Virtual reality b. Augmented reality c. Assistive technology
2. .... is a simulated 3D environment that allows users to explore and interact with the surroundings as if they were in reality.
   a. Virtual reality b. Artificial intelligence c. Assistive technology
3. .... is the ability of a machine such, as a computer, to think and learn.
   a. Virtual reality b. Augmented reality c. Artificial Intelligence
4. Visually impaired people can use .... to see their family members up close.
   a. artificial intelligence b. augmented reality c. hearing aids
5. To experience virtual reality, users often wear ....
   a. 3D glasses b. VR headsets c. AR headsets
6. Augmented reality can be done using the .... of your smartphone.
   a. microphone b. speaker c. camera
7. A VR headset blocks out the .... world and provides 360-degree views.
   a. real b. virtual c. both of the previous
8. Facial recognition is a feature used to unlock your phone using ....
   a. artificial intelligence b. virtual reality c. augmented reality
9. Augmented reality shows a/an .... model of what looks like the real world.
   a. 2D b. 3D c. invisible

10 A cardboard VR headset is a/an .... way to experience VR using your smartphone.

a. expensive b. inexpensive c. difficult

11 Students can use a .... app to point at the night sky and see a digital layer of labeled stars, planets, and nebulae using AR.

a. Google Maps b. Vlaby c. Sky Map

12 A computer learns by .... the provided examples.

a. analyzing b. storing c. saving

13 Predicting the next word you will type using your smartphone is an example of ....

a. virtual reality b. augmented reality c. artificial intelligence

14 Disabled people can use virtual assistants powered by .... to do everyday tasks, such as navigating their computer.

a. artificial intelligence b. augmented reality c. virtual reality

2 Put (✓) or (✗):

1 A computer learns by analyzing the provided examples. ( )

2 The Uber app uses artificial intelligence to match riders with available drivers. ( )

3 Augmented reality, virtual reality, and artificial intelligence (AI) are considered futuristic technologies. ( )

4 Futuristic technologies can't improve the lives of people of determination. ( )

5 Artificial intelligence can run in the background of programs to filter spam mail. ( )

6 There is no difference between augmented reality and virtual reality. ( )

7 Virtual reality is a simulated 2D environment that allows users to interact with the surroundings. ( )

8 A VR headset blocks out the real world, and provides 360-degree views. ( )

9. AR combines the real and virtual worlds to show 3D models that look real. ( )
10. AI is used to unlock your phone with facial recognition. ( )
11. Augmented reality helps students become active participants in learning. ( )
12. The ability of a machine, such as a computer, to think and learn is called AR. ( )
13. A cardboard VR headset is an expensive way to experience virtual reality. ( )
14. To experience virtual reality, users often wear a AR headset. ( )
15. Virtual reality allows you to explore museums from all over the world without leaving your home. ( )

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 VR	a. includes AI, AR and VR.
2 AR	b. is the ability of a machine to think and learn.
3 AI	c. can be used to do everyday tasks, such as making phone calls.
4 Virtual assistants	d. is a simulated 3D environment that allows users to interact with the surroundings.
5 Futuristic technology	e. adds computer-generated images to show a 3D model of what looks like the real world.

1 .... 2 .... 3 .... 4 .... 5 ....

Exercises on Lesson 4

1 Choose the correct answer:

1. The newest and most advanced version of a service or product is called .... technology.
   a. assistive   b. cutting-edge   c. virtual
2. .... technology helps people of determination with tasks they find challenging.
   a. Assistive   b. Cutting-edge   c. Virtual
3. Screen magnification software and hearing aids are types of .... technology.
   a. futuristic   b. cutting-edge   c. assistive
4. .... describe how people interact with a product, and how they evaluate their experiences.
   a. Futuristic technology   b. User experience   c. Virtual reality
5. Artificial intelligence, augmented reality, and virtual reality are examples of .... technology.
   a. assistive   b. cutting-edge   c. Microsoft
6. .... empower deaf people to translate their signs to spoken or text output.
   a. Hearing aids   b. Smart glasses   c. Smartgloves
7. If the product is practical and meets the customer's needs, the user experience will be ....
   a. positive   b. negative   c. neutral
8. Complicated and hard-to-use products result in .... user experiences.
   a. positive   b. negative   c. neutral

2 Put (✓) or (✗):

1. The newest and most advanced version of smartphones is called assistive technology. (   )
2. Smartgloves are a type of assistive technology. (   )

3. Artificial intelligence is one of the cutting-edge technologies. ( )
4. Programs that convert speech to text and vice versa are a type of assistive technology. ( )
5. User experiences describe how people use a product and evaluate their experiences. ( )
6. A user experience is always positive. ( )
7. Credibility and accessibility are factors that affect user experiences. ( )
8. Smartgloves don't empower people of determination. ( )
9. The development of products and services doesn't affect the user experience. ( )
10. One of the goals of assistive technology is to improve someone's independence. ( )
11. The best assistive technology for a person depends on their individual abilities and challenges. ( )
12. Assistive technology helps people of determination to be included in the society. ( )
13. If the product is pleasant to look at and interact with, this makes the user experience negative. ( )

3 Complete the following sentences using the words between the brackets:

(Cutting-edge technology – User experiences – Smartgloves – Assistive technology – Hearing aids)

1. .... translate sign language to speech or text.
2. .... helps people of determination with tasks they find challenging.
3. .... is/are how people feel about using a product.
4. .... is/are the latest and most advanced technology.
5. .... is/are a type of assistive technology that can help people with hearing troubles.

Exercises on Lesson 5

1 Choose the correct answer:

1. EKB is a .... source of information.
   a. credible b. unreliable c. biased
2. You can use .... to search on the Internet using keywords and phrases.
   a. search engines b. programing languages
   c. books
3. .... is/are collections of information that are typically stored on a computer system.
   a. Search results b. Databases c. Software
4. The shortcut used in Windows to paste a text or image is ....
   a. "Cmd + V" b. "Ctrl + V" c. "Ctrl + P"
5. The keyboard shortcut "Cmd + X" is used to .... a text or an image in macOS.
   a. copy b. cut c. paste
6. You can use the shortcut "Ctrl + C" to .... a text or an image in Windows.
   a. copy b. cut c. paste
7. When conducting a digital search, make sure the information you get is ....
   a. credible b. biased c. unreliable
8. .... is a database which includes all the items owned by a library.
   a. EKB b. A digital library c. A library catalog
9. The .... database covers only one subject, such as business or law.
   a. general b. subject c. electronic

10 Search engines help people search online based on ....

a. keywords b. phrases c. both of the previous

11 EKB is an example of a .... database which covers many subjects.

a. subject b. general c. network

2 Put (✓) or (✗):

1 There is only one type of database. ( )

2 EKB is an example of a subject database. ( )

3 Databases can be accessed for free through a school or library. ( )

4 It is not important to credit the source of information. ( )

5 All digital search tools give similar results. ( )

6 It is recommended to use a keyword to conduct a database search. ( )

7 A library catalog search doesn't include recently published books. ( )

8 You can press "Ctrl + C" to cut a text or an image in Windows. ( )

9 The shortcut "Cmd + V" is used to paste a text or an image in macOS. ( )

10 EKB is an inaccurate source of information. ( )

11 Bing is a reliable database. ( )

12 Some Google search results may be biased. ( )

13 Limit your search to the last few years to get up-to-date results from a database. ( )

14 Be sure the search result you select is credible and accurate. ( )

15 Search engines are user-friendly, very fast, and often give many results. ( )

16 A database is a good place to search for information from journals, newspapers, and books. ( )

17 The shortcut "Cmd + X" is used to cut a text or an image in Windows. ( )

18 The type of results you need will help you choose which search tool to use. ( )

19 General databases are designed to provide information on a specific topic. ( )

20 You can use other database fields, such as author or journal title, to narrow a search. ( )

3 Complete the following sentences using the words between the brackets:

(library catalog - cut - keywords - subject database - EKB)

1. The shortcut "Ctrl + X" is used to .... a text in Windows.
2. .... is an example of a general database which covers many subjects.
3. It is preferable to use .... to search for information on a database.
4. A .... covers only one subject and any results will be specific to your topic.
5. A .... is a database which includes all the items owned by a library.

Exercises on Lesson 7

1 Choose the correct answer:

1. The .... is the software that manages a computer's functions.
   a. programming language b. operating system c. Excel
2. The most popular operating system for computers worldwide is ....
   a. Android b. macOS c. Windows
3. The most popular operating system for mobiles worldwide is ....
   a. Windows b. Android c. Apple iOS
4. The .... runs a computer's software and hardware.
   a. operating system b. CPU c. hardware
5. Instructions for a computer are given in the form of a/an ....
   a. word file b. code c. audio
6. The .... allows a user to communicate with the computer without knowing computer languages.
   a. operating system b. hardware c. compiler
7. .... is the mobile operating system that runs on iPhone.
   a. Android b. iOS c. Linux
8. .... is an operating system for Apple computers.
   a. Windows b. macOS c. iOS
9. .... manages accessible devices, such as screen readers and magnifiers.
   a. Windows b. Word c. The hardware
10. MacOS is an operating system developed by ....
    a. Microsoft b. Apple c. Google
11. Windows is an operating system developed by ....
    a. Microsoft b. Apple c. Google

12 There are many operating systems for computers, such as Windows and ....

a. iOS   b. Android   c. Linux

13 .... is an open-source operating system for mobile devices.

a. Android   b. iOS   c. macOS

14 .... is a closed-source operating system for mobile devices.

a. Android   b. Apple iOS   c. Windows

15 .... software means that the programming code can be read or changed by anyone.

a. Open-source   b. Closed-source   c. Both of the previous

16 .... is an open-source software for building robot applications.

a. iOS   b. ROS   c. Android

17 Programming languages have evolved from .... to high-level languages.

a. machine languages   b. very high languages   c. mild languages

18 One of the functions of mobile operating systems is ....

a. messaging   b. touch   c. both of the previous

2 Put (✓) or (✗):

1 Most computers come preloaded with an operating system. (   )

2 Accessing the web is not one of the basic functions of operating systems. (   )

3 Android is an open-source operating system. (   )

4 Linux is the most popular operating system all over the world. (   )

5 HTML is commonly used to create web pages. (   )

6 Operating systems manage software only. (   )

7 The operating systems Android and iOS perform the same basic functions. (   )

8 Windows is open-source software that can be edited by anyone. (   )

9. Programmers choose a language based on the purpose of the program. ( )
10. Windows is an operating system used on 15% of computers. ( )
11. Apple iOS is closed-source software which cannot be changed by the public. ( )
12. The similarities between programming languages make them easy to learn. ( )
13. Self-driving cars don't need operating systems to perform. ( )
14. Programming languages are usually closed sources. ( )
15. Closed-source software means the code can be read and changed by anyone. ( )
16. HTML isn't compatible with all the major web browsers. ( )
17. There are multiple operating systems powering self-driving cars. ( )

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1. MacOS	a. means that anyone can view and modify the software.
2. iOS	b. is the most popular mobile operating system worldwide.
3. The operating system	c. runs on iPhone and is used on 27% of the world market.
4. Open-source software	d. is an operating system for Apple computers.
5. Android	e. is the software that manages a computer's functions.

1. .... 2. .... 3. .... 4. .... 5. ....

Model Exam 1

1 Choose the correct answer:

1. The latest and most advanced version of a service or product is called .... technology.
   a. assistive b. cutting-edge c. virtual
2. .... are groups of people or things that are connected to each other.
   a. Networks b. Modems c. Routers
3. .... is a programming language used to create web pages.
   a. HTML b. machine language c. Ring
4. .... combines the real world with a virtual world by adding images using computers.
   a. Virtual reality b. Augmented reality c. Assistive technology
5. A .... is used to connect users to the internet.
   a. switch b. router c. modem
6. Apple iOS is a/an .... software.
   a. open-source b. closed-source c. both of them
7. Word prediction in smartphones is an example of ....
   a. virtual reality b. augmented reality c. artificial intelligence
8. .... is the software that manages a computer's functions.
   a. Programming languages b. Operating system c. Excel

2 Put (✓) or (✗):

1. Artificial intelligence can imitate the sounds of people ( )
2. AR is used to unlock your phone with facial recognition. ( )
3. User experience is always positive. ( )
4. The similarities between programming languages make them easy to learn. ( )
5. Search engines are user-friendly, very fast, and often give many results. ( )
6. Instructions to a computer are given in the form of code. ( )
7. Closed-source software means the code can't be seen or changed by the public. ( )

Model Exam 2

1 Choose the correct answer:

1. .... networks connect devices using Wi-Fi.
   a. Wired b. Wireless c. Both of them
2. .... can imitate sounds when provided with the tone of voice of an actual human being.
   a. Augmented reality b. Artificial intelligence c. Switches
3. To experience virtual reality, users often wear ....
   a. 3D glasses b. VR headset c. AR headset
4. The computer learns by .... the available examples.
   a. analyzing b. storing c. saving
5. Virtual assistants powered by .... enable disabled individuals to perform daily tasks like making calls and using their computers.
   a. artificial intelligence b. augmented reality c. virtual reality
6. .... technology helps people of determination with tasks they find challenging.
   a. Assistive b. Cutting-edge c. Virtual
7. .... is a database which includes all the items owned by a library.
   a. EKB b. Digital library c. Library catalogs
8. Programming languages have evolved from a .... to high-level languages.
   a. simple languages b. very high languages c. mild

2 Put (✓) or (✗):

1. Switches are intelligent devices. ( )
2. A modem sends data to a specific device on the network ( )
3. When you search online, ensure that the results are accurate and credible . ( )
4. Futuristic technologies can improve the lives of people of determination. ( )
5. Credibility and accessibility are factors that affect user experiences. ( )
6. The EKB is an inaccurate source of information. ( )
7. You can limit your search to get up-to-date results from a database. ( )

Model Exam 3

1 Choose the correct answer:

1. Wired networks connect devices using ....
   a. Wi-Fi b. wireless c. cables
2. .... is a simulated 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.
   a. Virtual reality b. Artificial intelligence c. Assistive technology
3. The most popular operating system for computers worldwide is ....
   a. Android b. macOS c. Windows
4. Facial recognition is a feature used to unlock your phone using ....
   a. artificial intelligence b. virtual reality c. augmented reality
5. .... describe(s) how people interact with a product, and how they evaluate their experiences.
   a. Futuristic technology b. User experiences c. Virtual reality
6. You can use .... to search on the internet using keywords and phrases.
   a. search engines b. programing languages c. books
7. .... is an example of general database which covers many subjects.
   a. EKB b. Vlaby c. Google
8. .... is an open-source software for building robot applications.
   a. iOS b. ROS c. Android

2 Put (✓) or (✗):

1. VR headsets block out the real world and provide views that immerse the user in another world. (   )
2. Virtual reality allows you to explore museums thousands of miles away. (   )
3. macOS is on most computers worldwide. (   )
4. A database is a good place to search for information from journals and newspapers. (   )
5. Both Android and iOS perform the same basic functions. (   )
6. The operating system manages a computer's functions. (   )
7. Both Android and iOS perform the same basic functions, such as web access, video chat, and touch function. (   )

Model Exam 4

1 Choose the correct answer:

1. .... is a device that connects a local area network (LAN) to the internet.
   a. Artificial intelligence b. A modem c. A server
2. .... is the ability of the computer to think, learn and deduce.
   a. Virtual reality b. Augmented reality
   c. Artificial intelligence
3. .... software means a person can change and read the programming code.
   a. Open-source b. Closed-source c. Both of them
4. .... empower deaf people to translate their signs to spoken or text output.
   a. Hearing aids b. Smart glasses c. Smartgloves
5. Complicated and hard-to-use products result in .... user experiences.
   a. positive b. negative c. neutral
6. .... are collections of information which are typically stored in a computer system.
   a. Search results b. Databases c. Software
7. Apple computers run on ....
   a. Windows b. macOS c. Apple iOS

2 Put (✓) or (✗):

1. Wired networks use physical cables that are plugged into ports. ( )
2. Virtual reality is a simulated 2-D environment that allows users to interact with the surroundings. ( )
3. AR, VR, and AI are considered cutting-edge technologies. ( )
4. HTML isn't compatible with all the major web browsers. ( )
5. User experience describes how people use a product and evaluate their experiences. ( )
6. Databases can be accessed for free, through your school. ( )
7. All digital search tools give similar results. ( )
8. Most computers come pre-loaded with an operating system. ( )

Model Exam 5

1 Choose the correct answer:

1. .... converts the signal from the internet service provider (ISP) into a digital signal.
   a. Modem b. Router c. switch
2. .... is an operating system used on the iPhone and iPad.
   a. Android b. Apple iOS c. Linux
3. .... refers to computer applications that perform complex tasks, simulating human thinking and behavior
   a. Artificial intelligence b. Holograms c. Switches
4. Visually impaired people can use .... to see their family members up close.
   a. Artificial intelligence b. Augmented Reality c. hearing aids
5. If the product is practical and meets customer needs, the user experience will be ....
   a. Positive b. negative c. neutral
6. EKB is a .... source of information
   a. Credible b. unreliable c. biased
7. Library catalog is a/an .... which includes all the items owned by a library.
   a. Web browser b. database c. platform
8. Android uses .... Software.
   a. open-source b. closed-source c. both of them

2 Put (✓) or (✗):

1. We can connect devices to a network without wiring. ( )
2. Switch is a device that converts the signal from an ISP into a digital signal. ( )
3. AR, VR, and AI are considered futuristic technologies even though they are already being used today. ( )
4. Knowing the results that you need helps inform the search tools you could use. ( )
5. Smart gloves are a type of assistive technology. ( )
6. If the product is pleasant to look at and interact with, this makes the user experience negative. ( )
7. Operating system runs a computer's software and hardware. ( )

Answers

Model Exam 1

1

1 b	2 a	3 a	4 b
5 c	6 b	7 c	8 b

2

1 ✓	2 ✗	3 ✗	4 ✓
5 ✓	6 ✓	7 ✓	

Model Exam 2

1

1 b	2 b	3 b	4 a
5 a	6 a	7 c	8 a

2

1 ✓	2 ✗	3 ✓	4 ✓
5 ✓	6 ✗	7 ✓	

Model Exam 3

1

1 c	2 a	3 c	4 a
5 b	6 a	7 a	8 b

2

1 ✓	2 ✓	3 ✗	4 ✓
5 ✓	6 ✓	7 ✓	

Model Exam 4

1

1 b	2 c	3 a	4 c
5 b	6 b	7 b	

2

1 ✓	2 ✗	3 ✓	4 ✗
5 ✓	6 ✓	7 ✗	8 ✓

Model Exam 5

1

1 a	2 b	3 a	4 b
5 a	6 a	7 b	8 a

2

1 ✓	2 ✗	3 ✓	4 ✓
5 ✓	6 ✗	7 ✓	

Lesson 02 Computer Network Devices

Networks : A group of devices or things that are connected to each other for a common purpose.

Modem : A device that connects LAN to the internet.

- It converts the signal from ISP into a digital signal that can be read by devices.

LAN = Local Area Network **ISP** = Internet Service Provider

Router : It works as a gateway (connect computers to the ISP) .



• It connects a modem to different networks.

Switches : Switches are intelligent devices.

- Switches make connections easier and faster.
- They can send data to a specific device over a network.



Making Connections

There are two main ways to connect computers to a network:

Wired Networks	Wireless Networks
They use physical wiring (cables) which are plugged into ports on devices.	They connect devices without wiring through wireless or Wi-Fi.

Artificial Intelligence (AI)

They are computer applications that perform complex tasks.



AI importance:

❶ AI simulates the human's thinking and performance, such as the ability to learn and reason.

❷ AI works to imitate sounds when provided with the tone of voice of an actual human being.

How AI works:

❶ We provide these applications with Information, knowledge and answers to all possible questions.

❷ The machine can give answers to the data provided, such as:

a. writing an article on a topic.

b. Inquiring about historical events and their sequence.

Lesson 03 Technology and artificial intelligence

Augmented reality (AR)



- AR combines a real world with a virtual world by adding images using computer.
- AR will show a 3-D model of what looks like the real world.
- To experience AR, we use the camera of a smartphone or a tablet.



For example In a math class

- Students point their smartphone camera at a flat surface.
- Students project a 3-D image for a cube or cylinder onto the surface, as if the figure is in front of them.

Virtual reality (VR)



VR is a simulated 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.

experience VR, users often wear a VR headset that blocks out the real world and provides 360-degree views that immerse the user in another world.

For example :

- To experience VR, users often wear a VR headset that blocks out the real world and provides 360-degree views that immerse the user in another world.
- VR can take you to a museum thousands of miles away, or to a historical site hundreds of years ago

Artificial intelligence (AI)



AI is the ability of a machine such, as a computer, to think and learn.

- A computer learns by analyzing provided examples.

people of determination.

- Futuristic technologies can also improve the lives of people of determination.

For example :

❶ A person with a visual impairment can use AR to see their family members up close.

❷ Disabled individuals can use virtual assistants powered by AI to accomplish everyday tasks, such as
A. making phone calls
B. navigating computer using their voice or sign language.

Lesson 04 Evaluating Cutting-edge technology

Cutting-edge technology



is the latest and the most advanced version of a service or product.

Reliable Cutting-edge technology

- **Artificial Intelligence AI**
- **Augmented Reality AR**
- **Virtual Reality VR**

Assistive technology

- It improves lives and inclusion of people of determination in society.
- **Assistive technology** helps people of determination in many ways such as:

1 Smart gloves
Used by: deaf people
It turns: Their signs to spoken or text output in real

2 Hearing aids

3 Screen magnification software
Used by: Visually impaired people

4 Scanning and reading machine
Used by: Visually impaired people

5 Programs turns speech to text or text to spee

User Experiences

It describes

- **How to use the product**
- **How to interact with the product**
- **How to evaluate the product**

How to Evaluate the Product?



- Is product accessible for people for determination?
- Are the company and its products trustworthy?
- Does this product meet your need?
- If there is an issue, can I find a solution?
- Is it easy to use? Is it practical?
- Does this product improve my life?

- User experience is broken into smaller areas.
- User experience could be positive or negative.
- User experience helps in developing of products and services.

Lesson 05 Digital research skills

- You can use keyboard shortcut commands (copy – cut – paste) in word processing.

digital search tools

❶ Search engines :

- They help people to search internet websites using key words and phrases.
- They are user-friendly, very fast, and give many results.



❷ Databases :

- They are collections of information that stored in a computer and can be accessed, for free so it is a good place to search information.

Examples:

- Information stored in the computer of school.
- Journals, newspapers, and reference books in school library.
- EKB (general database): covers many subjects and its results will be credible and accurate.

❸ Library catalogs :



- It is a database which includes all the items owned by a library.
- It includes recently published books and e-books.

Examples:

The catalog of the Library of Alexandria (https://www.bibalex.org)

How to conduct a database search?



❶ use a keyword search. ❷ Review the results

❸ You can limit a search range by using fields like

a. Author b. journal title c. up-to-date.

❹ You must ensure the content you select is credible and accurate.

Lesson 07 Operating system

Operating system (OS)

It is the software that manages a computer's functions such as **memory, drives, printers,** and **other devices.**

Importance:

1. OS runs a computer's **software** and **hardware.**
2. OS allows a user to communicate with the computer easily.
3. OS includes accessible devices such as screen readers and magnifiers.

Examples:

1. **Computer operating systems**

Windows **Microsoft Windows** — run on most computers worldwide

macOS MacOS — runs on Apple computers.

2. **Mobile operating systems**

Android — uses open-source Software

IOS
- used on the iPhone and iPad.
- Closed-source operating system.

Notes:

- Most computers come pre-loaded with an operating system.
- Open-source Software: means a person can change and read the programming code.
- Closed-source Software: it can't be seen or changed by the public.
- Both Android and iOS perform the same basic functions, such as messaging, web access, video chat and touch function.

Cutting-edge operating systems

They are operating systems that power the cutting-edge technologies.

Examples:

- The Robot Operating System (ROS): (Open-source software)
- Operating systems powering self-driving cars





Programming languages

They are Instructions to a computer are given in code.

Programming languages properties

- **They are Open sources**: Anyone can **see, modify** or **distribute** the code.
- **They share similarities**: If you learn one, it is easier to learn others.
- **They are developed**: They are developed from a simple machine language (binary) to high-level human-like languages

Hyper Text Markup Language (HTML)



Programmers use HTML to:

❶ create web pages

❷ add text, links, audios and videos to web pages.

- HTML is easy to learn and use.
- It is compatible with all the major web browsers

October Questions Bank

Question 01 choose the correct Answer

1. .... networks connect devices without wiring.
   - (a) Complex
   - (b) wiring
   - (c) Wireless
2. If the product is practical and meets customer needs, the user experience will be ....
   - (a) Positive
   - (b) negative
   - (c) neutral
3. .... performs complex tasks that simulate the thinking and performance of the human element.
   - (a) VR
   - (b) AI
   - (c) AR
4. The latest and most advanced version of a service or product is called .... technology.
   - (a) assistive
   - (b) cutting-edge
   - (c) virtual
5. Wired networks use physical wiring and cables which are plugged into .... on devices.
   - (a) ports
   - (b) modem
   - (c) routers
6. Visually impaired people can use .... to see their family members up close.
   - (a) Artificial intelligence
   - (b) Augmented Reality
   - (c) hearing aids
7. The most popular operating system for mobile worldwide is ....
   - (a) Windows
   - (b) Android
   - (c) Apple iOS
8. .... is a simulated 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.
   - (a) Virtual reality
   - (b) artificial intelligence
   - (c) assistive technology
9. The abbreviation of Artificial intelligence is ....
   - (a) ALT
   - (b) AR
   - (c) AI
10. Most computers come pre-loaded with a/an ....
    - (a) operating system
    - (b) Windows explorer
    - (c) e-readers
11. The .... deals with governments, technology universities, to provide services and access to places of those organizations
    - (a) I-Stem platform
    - (b) Google Chrome
    - (c) EKB platform

12. The EKB results are credible and ....
   - a) inaccurate
   - b) narrow
   - c) accurate

13. .... are devices that can be connected to the internet.
   - a) Desktop computers
   - b) Laptops
   - c) a and b

14. .... are some of the most used word processing commands.
   - a) Copy
   - b) Paste
   - c) a and b

15. This can be done through a smartphone camera or a tablet and will show a .... of what looks like the real world.
   - a) 3-D model
   - b) 2-D model
   - c) 4-D model

16. Smart gloves that empower deaf people to translate their signs in real time to spoken or text output considered ....
   - a) augmented reality
   - b) cutting-edge technology
   - c) assistive technology

17. .... is used to unlock your phone with facial recognition.
   - a) AI
   - b) AR
   - c) VR

18. .... refers to computer applications that perform complex tasks, simulating human thinking and behavior
   - a) Artificial intelligence
   - b) Holograms
   - c) Switches

19. Augmented reality can be done through a ....
   - a) tablet
   - b) computer
   - c) hardware

20. .... is a virtual 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.
   - a) AI
   - b) AR
   - c) VR

21. A/An .... help disabled individuals through using virtual assistants to accomplish everyday tasks.
   - a) augmented reality
   - b) virtual reality
   - c) artificial intelligence

22. .... combines the real world with a virtual world by adding images using computers.
   - a) Augmented reality
   - b) VR
   - c) Artificial intelligence

23. .... helps people of determination, for example, screen magnification software and hearing aids.
   - a) Augmented reality
   - b) Cutting-edge technology
   - c) Assistive technology

24 The .... is one of the platforms that provides counseling and employment opportunities for people of determination.

(a) facebook (b) I-Stem (c) Ekb

25 .... describes how people use the product and interact with it, and how they evaluate their experiences.

(a) User experiences (b) Meeting needs (c) Both of them

26 Mr. Sawhney has been able to create applications that convert .... into audio frequencies.

(a) sounds (b) writings (c) graphs

27 .... can help people to search internet websites based on the keyword; and phrases.

(a) Search engines (b) Databases (c) Library catalogs

28 .... is an operating system used on the iPhone and iPad.

(a) Android (b) Apple iOS (c) Linux

29 You can search for information from magazines and newspapers through the ....

(a) search engines (b) databases (c) library catalogs

30 The most popular operating system for computers worldwide is ....

(a) Android (b) macOS (c) Windows

31 A .... is a database which includes all the items owned by a library.

(a) search engine (b) database (c) library catalog

32 .... computers run on macOS.

(a) Apple (b) Windows (c) Android

33 .... converts the signal from the internet service provider (ISP) into a digital signal.

(a) Port (b) Modem (c) Router

34 .... uses open-source software.

(a) Android (b) Apple iOS (c) Windows

35 .... is the software that manages a computer's functions.

(a) programming languages (b) operating system (c) Excel

36 .... are group of people or things that are connected to each other.

(a) modems (b) networks (c) routers

37 You can use .... to search on the internet using keywords and phrases.

ⓐ search engines ⓑ programing languages ⓒ books

38 .... is a device that connects a local area network (LAN) to the internet.

ⓐ Artificial intelligence ⓑ Modem ⓒ Server

39 EKB is a .... source of information

ⓐ Credible ⓑ unreliable ⓒ biased

40 .... empower deaf people to translate their signs to spoken or text output.

ⓐ Hearing aids ⓑ smart glasses ⓒ Smart gloves

41 .... technology helps people of determination with tasks they find challenging.

ⓐ assistive ⓑ cutting edge ⓒ virtual

42 .... runs a computer's software and hardware.

ⓐ Operating system ⓑ CPU ⓒ Hardware

43 Facial recognition is a feature used to unlock your phone using ....

ⓐ Artificial intelligence ⓑ Virtual reality ⓒ Augmented reality

44 Mr. Kartik Sawhney is a/an .... at the National Geographic Organization

ⓐ ecologist ⓑ biologist ⓒ explorer

45 .... describe how people interact with a product, and how they evaluate their experiences.

ⓐ Futuristic technology ⓑ user experiences ⓒ virtual reality

46 Wired networks connect devices using ....

ⓐ Wi-Fi ⓑ wireless ⓒ cables

47 Complicated and hard-to-use products result in .... user experiences.

ⓐ Positive ⓑ negative ⓒ neutral

48 .... helps students become active participants in learning and makes learning more memorable.

ⓐ AI ⓑ AR ⓒ VR

49 In the classroom, ... can take you to a world where insects and atoms are bigger than you, so that you can study them closely

ⓐ AI ⓑ AR ⓒ VR

50 Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of ....

(a) augmented reality (b) cutting-edge technology (c) assistive technology

51 .... categories are ways of technology evaluation.

(a) Accessible (b) Desirable (c) a and b

52 A library catalog is a/an ...... which includes all items owned by the library.

(a) heading (b) engine (c) database

53 The .... is an example of a general database which covers many subjects.

(a) Facebook (b) Twitter (c) EKB

54 A/An .... is the software that manages computer's functions.

(a) operating system (b) Windows Explorer (c) Google Chrome

55 .... to instructions to a computer that are given in code.

(a) ROS (b) Programming Language (c) Operating system

56 .... means a person can change and read the programming code.

(a) Open-source software (b) Closed-source software (c) both a and b

57 .... are collections of information which are typically stored in a computer, system and can be accessed, for free through a school or library.

(a) Search engines (b) Database (c) Library catalogs

58 .... converts the signal from the internet service provider (ISP) into a digital signal.

(a) Modem (b) Router (c) switch

59 .... can imitate sounds when provided with the tone of voice of an actual human being.

(a) Augmented reality (b) artificial intelligence (c) Switches

60 To experience virtual reality, users often wear ....

(a) 3D glasses (b) VR headset (c) AR headset

61 .... are collections of information which are typically stored in a computer system.

(a) Search results (b) Databases (c) software

62 .... is a database which includes all the items owned by a library.

(a) EKB (b) Digital library (c) Library catalogs

63 .... sends data to a specific device over a network.

ⓐ Modern ⓑ Switch ⓒ Server

64 A .... is a device that connects a local area network (LAN) to the internet

ⓐ modem ⓑ laptop ⓒ Switches

65 .... software means a person can change and read the programming code.

ⓐ open-source ⓑ closed-source ⓒ both of them

66 Screen magnification software, hearing aids, and programs that turn speech to text and text to speech are examples of ....

ⓐ augmented reality ⓑ cutting-edge technology ⓒ assistive technology

Question 02 put (√) or (×)

1. The similarities between programming languages make them easy to learn. ( )
2. HTML isn't compatible with all the major web browsers . ( )
3. Operating system runs a computer's software and hardware . ( )
4. Instructions to a computer are given in the form of code . ( )
5. A switch is a device that connects a local area network to the internet. ( )
6. A database is a good place to search for information from journals, newspapers . ( )
7. VR works to imitate sounds when provided with the tone of voice of an actual human being. ( )
8. All digital search tools give similar results . ( )
9. User experience is always positive . ( )
10. Switches help to make connections easier and faster. ( )
11. If the product is pleasant to look at and interact with, this make the user experience negative ( )
12. Wired networks use physical cables which are plugged into ports . ( )

13 We can connect devices to a network without wiring ( )

14 Mobile devices have mobile operating systems. ( )

15 Artificial intelligence (AI) is the ability of the computer to think and learn. ( )

16 The most popular mobile OSS are Android and Apple iOS. ( )

17 An AR app shows you how new furniture will look in your house. ( )

18 Android runs on mac devices. ( )

19 Cutting-edge technology is the latest and most advanced version of a service or product. ( )

20 There is only one way to get useful search results and to narrow your search you can. ( )

21 Meeting needs improve someone's independence and consquently inclusion in society. ( )

22 Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of assistive technology. ( )

23 Search engine is a good place to search for information from magazines, and newspapers. ( )

24 Futuristic technologies cannot improve the lives of people of determination. ( )

25 Operating system is used for managing computer's functions. ( )

26 Using windows helps students become active participants in learning and makes learning more memorable. ( )

27 Apple computers run on windows operating system. ( )

28 It is not important to credit the source of information . ( )

29 Apple computers run on macOS. ( )

30 Credibility and accessibility are factors that affect user experiences . ( )

31 HTML is commonly chosen for website creation. ( )

32 Smart gloves are a type of assistive technology. ( )

33. switches are intelligent devices. ( )
34. A library catalog is a database which includes all the items owned by a library. ( )
35. Switch is a device that converts the signal from ISP into a digital signal . ( )
36. Wireless networks use physical wiring and cables which are plugged into ports on devices. ( )
37. AR, VR and AI are considered futuristic technologies even though they are already being used today . ( )
38. Most computers come pre-loaded with an operating system ( )
39. Virtual reality allows you to explore museums thousands of miles away. ( )
40. Artificial intelligence can imitate sounds of people ( )
41. User experience describes how people use a product and evaluate their experiences. . ( )
42. Microsoft Windows runs the most computers worldwide. ( )
43. You can limit your search to get up-to-date results from a database. ( )
44. Databases are collections of information which are typically stored in a computer system. ( )
45. When doing research via internet, use your evaluation skills to ensure the content you select is credible and accurate. ( )
46. An operating system includes accessible devices such as printer scanner. ( )
47. Both Android and iOS perform the same basic functions . ( )
48. Windows is open-source software for building robot applications. ( )
49. Apple computers run on windows . ( )
50. modem send data to a specific device on the network. ( )
51. Closed-source software means the code can be read and changed by anyone. ( )
52. Futuristic technologies can improve the lives of People of determination ( )

53. AR is used to unlock your phone with facial recognition ( )
54. The EKB is an inaccurate source of information . ( )
55. When you search online, you should ensure that the results are accurate and credible ( )
56. macOS is on most computers worldwide ( )
57. Disabled individuals can use virtual assistants to make phone calls. ( )
58. Computer networks connect computers with each other, to share important information and data. ( )
59. Devices can be connected without wiring through Wi-Fi. ( )
60. Wireless networks use physical wiring and cables which are plugged into holes on devices. ( )
61. Cutting-edge technology helps people of determination. ( )
62. From the uses of AR, someone with a visual impaired can see their family members up close. ( )
63. VR headset blocks out the real world and provides views that immerse the user in another world. ( )
64. AR, VR and AI are considered cutting-edge technologies ( )
65. Search engines are user-friendly, very fast, and often give many results. ( )

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

Answers

October Questions Bank المتميز

Question 01 choose the correct Answer

1. .... networks connect devices without wiring.
   - a) Complex
   - b) wiring
   - c) Wireless
2. If the product is practical and meets customer needs, the user experience will be ....
   - a) Positive
   - b) negative
   - c) neutral
3. .... performs complex tasks that simulate the thinking and performance of the human element.
   - a) VR
   - b) AI
   - c) AR
4. The latest and most advanced version of a service or product is called .... technology.
   - a) assistive
   - b) cutting-edge
   - c) virtual
5. Wired networks use physical wiring and cables which are plugged into .... on devices.
   - a) ports
   - b) modem
   - c) routers
6. Visually impaired people can use .... to see their family members up close.
   - a) Artificial intelligence
   - b) Augmented Reality
   - c) hearing aids
7. The most popular operating system for mobile worldwide is ....
   - a) Windows
   - b) Android
   - c) Apple iOS
8. .... is a simulated 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.
   - a) Virtual reality
   - b) artificial intelligence
   - c) assistive technology
9. The abbreviation of Artificial intelligence is ....
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   - b) AR
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10. Most computers come pre-loaded with a/an ....
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    - c) e-readers
11. The .... deals with governments, technology universities, to provide services and access to places of those organizations
    - a) I-Stem platform
    - b) Google Chrome
    - c) EKB platform

12. The EKB results are credible and ....

   a) inaccurate   b) narrow   c) <u>accurate</u>

13. .... are devices that can be connected to the internet.

   a) Desktop computers   b) Laptops   c) <u>a and b</u>

14. .... are some of the most used word processing commands.

   a) Copy   b) Paste   c) <u>a and b</u>

15. This can be done through a smartphone camera or a tablet and will show a .... of what looks like the real world.

   a) <u>3-D model</u>   b) 2-D model   c) 4-D model

16. Smart gloves that empower deaf people to translate their signs in real time to spoken or text output considered ....

   a) augmented reality   b) cutting-edge technology   c) <u>assistive technology</u>

17. .... is used to unlock your phone with facial recognition.

   a) <u>AI</u>   b) AR   c) VR

18. .... refers to computer applications that perform complex tasks, simulating human thinking and behavior

   a) <u>Artificial intelligence</u>   b) Holograms   c) Switches

19. Augmented reality can be done through a ....

   a) <u>tablet</u>   b) computer   c) hardware

20. .... is a virtual 3-D environment that allows users to explore and interact with the surroundings, as if it were reality.

   a) AI   b) <u>AR</u>   c) VR

21. A/An .... help disabled individuals through using virtual assistants to accomplish everyday tasks.

   a) augmented reality   b) virtual reality   c) <u>artificial intelligence</u>

22. .... combines the real world with a virtual world by adding images using computers.

   a) <u>Augmented reality</u>   b) VR   c) Artificial intelligence

23. .... helps people of determination, for example, screen magnification software and hearing aids.

   a) Augmented reality   b) Cutting-edge technology   c) <u>Assistive technology</u>

24 The .... is one of the platforms that provides counseling and employment opportunities for people of determination.

Ⓐ facebook　Ⓑ <u>I-Stem</u>　Ⓒ Ekb

25 .... describes how people use the product and interact with it, and how they evaluate their experiences.

Ⓐ <u>User experiences</u>　Ⓑ Meeting needs　Ⓒ Both of them

26 Mr. Sawhney has been able to create applications that convert .... into audio frequencies.

Ⓐ sounds　Ⓑ writings　Ⓒ <u>graphs</u>

27 .... can help people to search internet websites based on the keyword; and phrases.

Ⓐ <u>Search engines</u>　Ⓑ Databases　Ⓒ Library catalogs

28 .... is an operating system used on the iPhone and iPad.

Ⓐ Android　Ⓑ <u>Apple iOS</u>　Ⓒ Linux

29 You can search for information from magazines and newspapers through the ....

Ⓐ search engines　Ⓑ <u>databases</u>　Ⓒ library catalogs

30 The most popular operating system for computers worldwide is ....

Ⓐ Android　Ⓑ macOS　Ⓒ <u>Windows</u>

31 A .... is a database which includes all the items owned by a library.

Ⓐ search engine　Ⓑ database　Ⓒ <u>library catalog</u>

32 .... computers run on macOS.

Ⓐ <u>Apple</u>　Ⓑ Windows　Ⓒ Android

33 .... converts the signal from the internet service provider (ISP) into a digital signal.

Ⓐ Port　Ⓑ <u>Modem</u>　Ⓒ Router

34 .... uses open-source software.

Ⓐ <u>Android</u>　Ⓑ Apple iOS　Ⓒ Windows

35 .... is the software that manages a computer's functions.

Ⓐ programming languages　Ⓑ <u>operating system</u>　Ⓒ Excel

36 .... are group of people or things that are connected to each other.

Ⓐ modems　Ⓑ <u>networks</u>　Ⓒ routers

37. You can use .... to search on the internet using keywords and phrases.
(a) search engines (b) programing languages (c) books

38. .... is a device that connects a local area network (LAN) to the internet.
(a) Artificial intelligence (b) Modem (c) Server

39. EKB is a .... source of information
(a) Credible (b) unreliable (c) biased

40. .... empower deaf people to translate their signs to spoken or text output.
(a) Hearing aids (b) smart glasses (c) Smart gloves

41. .... technology helps people of determination with tasks they find challenging.
(a) assistive (b) cutting edge (c) virtual

42. .... runs a computer's software and hardware.
(a) Operating system (b) CPU (c) Hardware

43. Facial recognition is a feature used to unlock your phone using ....
(a) Artificial intelligence (b) Virtual reality (c) Augmented reality

44. Mr. Kartik Sawhney is a/an .... at the National Geographic Organization
(a) ecologist (b) biologist (c) explorer

45. .... describe how people interact with a product, and how they evaluate their experiences.
(a) Futuristic technology (b) user experiences (c) virtual reality

46. Wired networks connect devices using ....
(a) Wi-Fi (b) wireless (c) cables

47. Complicated and hard-to-use products result in .... user experiences.
(a) Positive (b) negative (c) neutral

48. .... helps students become active participants in learning and makes learning more memorable.
(a) AI (b) AR (c) VR

49. In the classroom, ... can take you to a world where insects and atoms are bigger than you, so that you can study them closely
(a) AI (b) AR (c) VR

50 Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of ....

(a) augmented reality (b) <u>cutting-edge technology</u> (c) assistive technology

51 .... categories are ways of technology evaluation.

(a) Accessible (b) Desirable (c) <u>a and b</u>

52 A library catalog is a/an ...... which includes all items owned by the library.

(a) heading (b) engine (c) <u>database</u>

53 The .... is an example of a general database which covers many subjects.

(a) Facebook (b) Twitter (c) <u>EKB</u>

54 A/An .... is the software that manages computer's functions.

(a) <u>operating system</u> (b) Windows Explorer (c) Google Chrome

55 .... to instructions to a computer that are given in code.

(a) ROS (b) <u>Programming Language</u> (c) Operating system

56 .... means a person can change and read the programming code.

(a) <u>Open-source software</u> (b) Closed-source software (c) both a and b

57 .... are collections of information which are typically stored in a computer, system and can be accessed, for free through a school or library.

(a) Search engines (b) <u>Database</u> (c) Library catalogs

58 .... converts the signal from the internet service provider (ISP) into a digital signal.

(a) <u>Modem</u> (b) Router (c) switch

59 .... can imitate sounds when provided with the tone of voice of an actual human being.

(a) Augmented reality (b) <u>artificial intelligence</u> (c) Switches

60 To experience virtual reality, users often wear ....

(a) 3D glasses (b) <u>VR headset</u> (c) AR headset

61 .... are collections of information which are typically stored in a computer system.

(a) Search results (b) <u>Databases</u> (c) software

62 .... is a database which includes all the items owned by a library.

(a) <u>EKB</u> (b) Digital library (c) Library catalogs

63 .... sends data to a specific device over a network.

a Modern b Switch c Server

64 A .... is a device that connects a local area network (LAN) to the internet

a modem b laptop c Switches

65 .... software means a person can change and read the programming code.

a open-source b closed-source c both of them

66 Screen magnification software, hearing aids, and programs that turn speech to text and text to speech are examples of ....

a augmented reality b cutting-edge technology c assistive technology

Question 02 put (√) or (×)

1. The similarities between programming languages make them easy to learn. ✓
2. HTML isn't compatible with all the major web browsers . ✗
3. Operating system runs a computer's software and hardware . ✓
4. Instructions to a computer are given in the form of code . ✓
5. A switch is a device that connects a local area network to the internet. ✗
6. A database is a good place to search for information from journals, newspapers . ✓
7. VR works to imitate sounds when provided with the tone of voice of an actual human being. ✗
8. All digital search tools give similar results . ✗
9. User experience is always positive . ✗
10. Switches help to make connections easier and faster. ✓
11. If the product is pleasant to look at and interact with, this make the user experience negative ✗
12. Wired networks use physical cables which are plugged into ports . ✓

13. We can connect devices to a network without wiring ✓
14. Mobile devices have mobile operating systems. ✓
15. Artificial intelligence (AI) is the ability of the computer to think and learn. ✓
16. The most popular mobile OSS are Android and Apple iOS. ✓
17. An AR app shows you how new furniture will look in your house. ✓
18. Android runs on mac devices. ✗
19. Cutting-edge technology is the latest and most advanced version of a service or product. ✓
20. There is only one way to get useful search results and to narrow your search you can. ✗
21. Meeting needs improve someone's independence and consquently inclusion in society. ✓
22. Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of assistive technology. ✗
23. Search engine is a good place to search for information from magazines, and newspapers. ✗
24. Futuristic technologies cannot improve the lives of people of determination. ✗
25. Operating system is used for managing computer's functions. ✓
26. Using windows helps students become active participants in learning and makes learning more memorable. ✗
27. Apple computers run on windows operating system. ✗
28. It is not important to credit the source of information . ✗
29. Apple computers run on macOS. ✓
30. Credibility and accessibility are factors that affect user experiences . ✓
31. HTML is commonly chosen for website creation. ✓
32. Smart gloves are a type of assistive technology. ✓

33. switches are intelligent devices. ✓
34. A library catalog is a database which includes all the items owned by a library. ✓
35. Switch is a device that converts the signal from ISP into a digital signal . ✗
36. Wireless networks use physical wiring and cables which are plugged into ports on devices. ✗
37. AR, VR and AI are considered futuristic technologies even though they are already being used today . ✓
38. Most computers come pre-loaded with an operating system ✓
39. Virtual reality allows you to explore museums thousands of miles away. ✓
40. Artificial intelligence can imitate sounds of people ✓
41. User experience describes how people use a product and evaluate their experiences. . ✓
42. Microsoft Windows runs the most computers worldwide. ✓
43. You can limit your search to get up-to-date results from a database. ✓
44. Databases are collections of information which are typically stored in a computer system. ✓
45. When doing research via internet, use your evaluation skills to ensure the content you select is credible and accurate. ✓
46. An operating system includes accessible devices such as printer scanner. ✗
47. Both Android and iOS perform the same basic functions . ✓
48. Windows is open-source software for building robot applications. ✗
49. Apple computers run on windows . ✗
50. modem send data to a specific device on the network. ✗
51. Closed-source software means the code can be read and changed by anyone. ✗
52. Futuristic technologies can improve the lives of People of determination ✓

53 AR is used to unlock your phone with facial recognition ✗

54 The EKB is an inaccurate source of information . ✗

55 When you search online, you should ensure that the results are accurate and credible ✓

56 macOS is on most computers worldwide ✗

57 Disabled individuals can use virtual assistants to make phone calls. ✓

58 Computer networks connect computers with each other, to share important information and data. ✓

59 Devices can be connected without wiring through Wi-Fi. ✓

60 Wireless networks use physical wiring and cables which are plugged into holes on devices. ✗

61 Cutting-edge technology helps people of determination. ✓

62 From the uses of AR, someone with a visual impaired can see their family members up close. ✓

63 VR headset blocks out the real world and provides views that immerse the user in another world. ✓

64 AR, VR and AI are considered cutting-edge technologies ✓

65 Search engines are user-friendly, very fast, and often give many results. ✓

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

ICT Grade 6

1-Choose the correct answer:

1. Mr. ………………is a National Geographic Explorer and a computer expert
(Kartik Sawhney- Albert Lin- Sani)

2. He earned his Bachelor's and Master's degrees in …………….at Stanford University, California, in the USA
(science-Computer Science- HTML code)

3. His app converts ………..into audio frequencies
(graphs-word-Excel)

4. The ………. platform also includes mentorship and employment opportunities for people of determination.
(website - I-Stem – links)

5. People of determination can get help with ……….writing

6. To assist the visually impaired. the Taha Hussein Library in the ....
(New Bibliotheca Alexandrina-Cairo – Alexandrina)

7. the …………..has scanners with special software that converts printed text into audio
(EKB-Taha Hussein Library-Cairo Library)

8. The Miracle Child" …………….who is a talented computer programmer
(Mohamed salah - Rania Saleh - Reem Saleh)

9. there are apps that use speech to text technology these app is called ………..
(Roger voice- Access Now- be my eyes)

10. ………………it provides information and Resources related to accessibility for people with disability
(Roger voice- Access Now- be my eyes)

11. ……………….it's a website and mobile application that aims to connect blind or visual

and very with cited volunteers throw with you calls

(Roger voice- Access Now- be my eyes)

12. …………..are groups of devices all things that are connected to each other for a common Purpose
(Networks- Modem- switches)
13. ……………..it's a device that connect a local area network land to the internet
(Networks- Modem- switches)

14. modem it converts the signal from the internet service provider ISP
(Networks- Modem- switches)

15. ………………..they can send that to a specific device over a network which helps to make connections easier and faster ”
(Networks- Modem- switches)

16. …………….it's a comprehensive term for computer applications the third form complex tasks

(augmented reality -virtual reality -Artificial intelligence)

17. AI works to imitate sounds when provided with the tone of voice of an actual human being
(augmented reality -virtual reality -Artificial intelligence)

18. …………….is a virtual 3D environment that allow users to export and interact with the surrounding
(augmented reality -virtual reality -Artificial intelligence)

19. to experience VR users often wear a ………… that block out the real world
(VR headset- Android- printers)

20. …………………. combines the real world with a virtual world by adding images using computers this will show a 3D model
(augmented reality -virtual reality -Artificial intelligence)

21. artificial intelligence AI is the ability of the computer to think learn and decide
(augmented reality -virtual reality -Artificial intelligence)

22. ………….is used to unlock your phone with facial recognition
(augmented reality -virtual reality -Artificial intelligence)

23. ………….to accomplish everyday tasks such as making phone calls
(augmented reality -virtual reality -Artificial intelligence)

24. ………….is benefited as the latest and most advanced version of a service or products
(cutting edge technology- Assistive technology- user experiences)

25. people of the determination such as sensitive technology smart gloves that empower deaf people …………..
(cutting edge technology- Assistive technology- user experiences)

26. ………….It describes how to use the product and interact with it and how to evaluate the experience
(cutting edge technology- Assistive technology- user experiences)

27. ……………. must interlinked with the development of products and services
(cutting edge technology- meeting needs - user experiences)

28. cutting Edge ……………is incredibly varied but the goal is the same
(assistive technology - meeting needs - user experiences)

29. copy paste and cut are some of the most commonly used ………….commands
(assistive technology - meeting needs - word processing)

30. …………….they are a collection of information which are typically stored in a computer system

(assistive technology - database - library catalog)

31. you can search for information from magazines and newspaper through the…………
(search engine - database - library catalog)

32. example of a general Database
(search engine - The EKB - library catalog)

33. ……………is a database which includes all the items owned by a library
(search engine - database - library catalog)

34. you can use other database fields to Narrow a search such as ………
(journal title – author- both of them)

35. the ……….. covers many subjects the results will be credible and accurate
(search engine - The EKB - library catalog)

36. limiting a search Range by specific dates will help you find the most ………….research

(up to date-delete- make)

37. ……….is a software that manages a computer's functions
(operating system OS- Robot operating system- Android)
38. ……………. Windows is one most computers worldwide
(Apple- Microsoft - Android)

39. Apple computers run on ………..
(Apple- Microsoft - Mac OS)

40. the most popular mobile OS are ……….
(Android - Microsoft - Mac OS)

41. ………which is used on the iPhone and iPad
(ROS -Android -apples iOS)

42. …………. uses open-Source software which means a person can change
(ROS -Android -apples iOS)

43. the ………….. is an open-Source software used for building robot applications
(binary -ROS- HTML)

44. there are multiple …………. powering self-driving cars
(operating system OS- Robot operating system-Android)

45. …………….. including those developed by Apple CarPlay and Windows Automotive
(operating system OS- self driving cars -Android)

46. ………………to create website web pages
(iOS-EKB- HTML)

47. programming language have evolved from simple machine language(…………) to high level human-like language
(binary -HTML -iOS)

48. ………….is commonly choosing for websites creation because it's easy to learn and to use

(binary -HTML -iOS)

49. it describes the structure of web page and consists of a series of elements
(binary -HTML -iOS)

50. it's at the top tag of the page
(large heading -image -subheadings)
51. They make the text easy to scan so a reader can find the information they want
(large heading -image -subheadings)

52. ……………usually has more than one sentence
(large heading -paragraphs-subheadings)

2-Put (T) /(F):

1. Mr. Sawhney creates applications that provide access to visual content to the blind and visually impaired. ( )
2. switches are intelligent. ( )
3. there are one operating system powering self-driving cars ( )
4. both Android and iOS perform the same basic function( )

5. Apple is one most computer worldwide ( )
6. apples iOS which is used on the iPhone and iPad ( )
7. computer language often shares similarities, so once you learn one it is easier to learn others( )
8. Apple iOS is open-Source it can't be seen or changed by the public ( )
9. Hyper Text Markup Language (HTML) to create website web pages ( )
10. meeting needs interlinked with the development of products and services ( )
11. use your evaluations skills to ensure the content you select is credible and agreed accurate ( )
12. example of a general Database(The OS) ( )
13. switches they can send that to a specific device over a network( )
14. programming language are usually open source ( )
15. web browsers read HTML documents and display the content according to the HTML tags have three main parts ( )

16. HTML elements break up with beach to make them easier to scan, read and navigate ( )
17. Image usually has more than one sentence ( )
18. to experience AR users often wear a VR headset that block out the real world ( )
19. Switches it converts the signal from the internet service provider ISP which transform into a digital signal ( )
20. Text broken up into paragraphs makes it easy for the reader to scan for the information they want ( )
21. limiting a search Range by specific dates will help you find the most up-to-date research( )
22. a search engines search may include recently published the books including e-books ( )
23. virtual reality VR is a virtual 3D environment that allow users to export and interact with the surrounding ( )
24. modem it's a device that connect a local area network ( )

25. artificial intelligence a robot vacuum uses AI to avoid furniture and stairs ( )

ICT Grade 6

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104. ……………usually has more than one sentence
(large heading -paragraphs-subheadings)

105.

106.

2-Put (T) /(F):

26. Mr. Sawhney creates applications that provide access to visual content to the blind and visually impaired. (T)
27. switches are intelligent. (T)
28. there are one operating system powering self- driving cars (F)
29. both Android and iOS perform the same basic function(T)
30. Apple is one most computer worldwide (F)
31. apples iOS which is used on the iPhone and iPad (T)
32. computer language often shares similarities, so once you learn one it is easier to learn others(T)
33. Apple iOS is open-Source it can't be seen or changed by the public (F)
34. Hyper Text Markup Language (HTML) to create website web pages (T)
35. meeting needs interlinked with the development of products and services (T)
36. use your evaluations skills to ensure the content you select is credible and agreed accurate (T)

37. example of a general Database(The OS) (F)
38. switches they can send that to a specific device over a network(T)
39. programming language are usually open source (T)
40. web browsers read HTML documents and display the content according to the HTML tags have three main parts (T)
41. HTML elements break up with beach to make them easier to scan, read and navigate (T)
42. Image usually has more than one sentence (F)
43. to experience AR users often wear a VR headset that block out the real world (F)
44. Switches it converts the signal from the internet service provider ISP which transform into a digital signal (f)
45. Text broken up into paragraphs makes it easy for the reader to scan for the information they want (T)
46. limiting a search Range by specific dates will help you find the most up-to-date research(T)

47. a search engines search may include recently published the books including e-books (F)
48. virtual reality VR is a virtual 3D environment that allow users to export and interact with the surrounding (T)
49. modem it's a device that connect a local area network (T)
50. artificial intelligence a robot vacuum uses AI to avoid furniture and stairs (T)

Q1: Choose the correct answer

1- I-Stem website ……. The file into a word document
   a- Includes
   b- Converts
   c- Helps
   d- delete
2- Egypt supports people of …… in many settings
   a- Determination
   b- Position
   c- Termination
   d- Opportunities
3- Using a mobile phone can be difficult for people with hearing ....
   a- Strength
   b- Reality
   c- Impairment
   d- ability
4- Mr. Kartik Sawhney is a/an ……. at the national Geographic Organization
   a- Ecologist
   b- Biologist
   c- Explorer
   d- Doctor

5- Mr. Kartik Sawhney uses ……. To help people of determination
   a- Technology
   b- Construction tools
   c- Writing tools
   d- Paint tools
6- Mr. Sawhney has been able to create applications that convert ………….. into audio frequencies
   a- Writings
   b- Sounds
   c- Graphs
   d- Symbols
7- ……. Receive support from volunteer mentors to write a resume and prepare for job interviews by using I-Stem platform
   a- Hearing impaired people
   b- People of determination
   c- Blind and visually impaired people
   d- Normal people
8- The …………. is one of the platforms that provides counseling and employment opportunities for people of determination
   a- I-Stem platform
   b- Google chrome
   c- EKB platform
   d- None of them

9- ……. Send data to a specific device over a network

a- Switches

b- Routers

c- Ports

d- wires

10- ……… networks connect without wiring

a- Historical

b- Imitate

c- Wireless

d- complex

11- ……performs complex tasks that stimulate the thinking and performance of the human element

a- VR

b- AI

c- AR

d- ICI

12- …… are devices that can be connected to the internet

a- Desktop computers

b- Laptops

c- Smart devices

d- All of them

13- The ……. Deals with governments, technology universities, to provide services and access to places of those organizations

a- I-Stem platform

b- Google chrome

c- EKB platform

14- ……. Allows users to explore and interact with the surroundings, as if it were reality

a- AR

b- VR

c- RA

d- AI

15- Artificial intelligence is the …… of a machine such as computer to think and learn

a- Unlock

b- Inability

c- Ability

d- lock

16- ……………. combines the real world with a virtual world by adding images using computers

a- Augmented reality

b- VR

c- Artificial intelligence

d- Both (a) and (b)

17- …… helps students become active participants in learning and makes learning more memorable

a- RV

b- AR

c- VR

d- AI

18- …… is used to unlock your phone with facial recognition

a- AI

b- AR

c- VR

d- 3D

19- Augmented reality can be done through a ……

a- Tablet

b- Computer

c- Hardware

d- disk

20- ……. Is an example of assistive technology

a- Robots

b- Bluetooth speakers

c- Hearing aids

d- Computers

21- …… helps people of determination, for example, screen magnification software and hearing aids

a- Augmented reality

b- Cutting-edge technology

c- Artificial intelligence

d- Assistive technology

22- Artificial intelligence (AI), augmented reality (AR), and virtual reality (VR) are examples of ……

a- Augmented reality

b- Artificial intelligence

c- Cutting-edge technology

d- Assistive technology

23- …….. describes how people use the product and interact with it, and how they evaluate their experiences

a- User experiences

b- Meeting needs

c- Both of them

d- None of them

24- ……… is the latest and most advanced version of a service or product

a- Augmented reality

b- Artificial intelligence

c- Assistive technology

d- Cutting-edge technology

25- ……. Can help people to search internet websites based on the keywords and phrases

a- Search engines

b- Database

c- Library catalogs

d- Google chrome

26- You can search for information from magazines and newspapers through the ……

a- Search engines

b- Database

c- Library catalogs

d- Google chrome

27- To get useful search results and to narrow your search you can

a- Search by author name

b- Search title of the journal

c- Search by specifying dates

d- All of them

28- A ……… is a database which includes all the items owned by a library

a- Search engine

b- Database

c- Library catalogs

d- Google

29- …….. Surf the web and check email, similar to PCs

a- Smartphones

b- Tablets

c- Bath (a) and (b)

d- E-readers

30- ……. Often have high quality cameras, speakers, and screen resolution

a- Smartphones

b- Tablets

c- Both (a) and (b)

d- E-readers

31- These handheld computers (mobile devices) …….
a- Are portable
b- Can access the internet
c- Are held in landscape or portrait mode
d- All of them

32- ……. Installed on mobile devices is providing new solutions
a- Cutting-edge technology
b- Gaming apps
c- Assistive technology
d- None of them

33- A/An ……. Is the software that manages a computer’s function
a- Windows
b- Device
c- Operating system
d- android

34- instructions to a computer are given in …….
a- Code
b- Source
c- Password
d- Words

35- …….. is the operating system functions
a- Runs a computer’s software
b- Runs a computer’s hardware
c- Open source
d- Both a and b

36- …….. computers run on macOS

a- Apple

b- iPad

c- Android

d- windows

37- ……… means a person can change and read the programming code

a- Open-source software

b- Closed-source software

c- Both a and b

d- None of them

38- Web …… read HTML documents

a- Sites

b- Pages

c- Browsers

d- title

39- …….. is the standard programming language used to create web pages

a- <<=img src>

b- MacOS

c- OSs

d- HTML

40- ……. Read HTML documents and display the content according to the HTML tag

a- Web browsers

b- MacOS

c- E-reader

41- The HTML tag <h1> …… </h1> refers to ………
   a- Largest heading
   b- Subheading
   c- Smaller subheading
   d- Create a paragraph

42- The function of <a> …. is ……..
   a- Create hyperlink
   b- Change text to underline
   c- Change text to bold
   d- Change text to italic

43- Most computers come pre-loaded with an ……..
   a- Operating system
   b- Windows explorer
   c- E-readers
   d- Google chrome

Q2: Put (true) or (false)

1- Mr. Kartik Sawhney is a computer expert ( )
2- The I-Stem platform doesn't include any employment opportunities for people of determination ( )
3- Modem converts the signal from the internet service provider (ISP) which transforms into a digital signal that can be read by devices ( )
4- VR works to imitate sounds when provided with the tone of voice of an actual human being ( )
5- People of determination do not receive support on how to write resumes and prepare for job interviews ( )

6- (AI) is a comprehensive term for computer applications that perform complex tasks that simulate the thinking and performance of the human element ( )
7- Using windows help students become active participants in learning and makes learning more memorable ( )
8- Users often wear a normal headphone that blocks out the real world and provides views that immerse the user in another world ( )
9- Cutting-edge technology is the latest and most advanced version of a service or product ( )
10- There is only one way to get useful search results and to narrow your search as you can ( )
11- An operating system includes accessible devices such as printers and scanner ( )
12- Microsoft windows runs the most computers worldwide ( )
13- The HTML tag <h6> … </h6> refers to heading ( )
14- The tag <i> … </i> refers to emphasized text ( )
15- The tag … is used to change the font size only ( )
16- Databases are collections of information which are typically stored in a computer system and can be accessed, for free, through a school or library ( )

Q3: Read and write the name of the app or tool

1- It is located inside the Bibliotheca Alexandria and contains scanners that include special programs for converting text into voice
2- It is a device that connects a local area network (LAN) to the internet
3- Abbreviation of (AI)
4- It is the ability of computer to think, learn and deduce
5- It blocks out the real world and provides views that immerse the user in another world
6- It is an open-source software used for building robot applications

Q4: Read and write the categories

(Findable – Credible – Usable – Accessible – Valuable)

1- Does the product improve my life or help me learn?
2- If there is an issue with the project or service, can I find the solution?
3- Are the company and its products trustworthy?
4- Is it easy to use?
5- Is it accessible for people of determination?

Q5: Read and correct words between brackets

1- AI, AR, and VR are examples of (Assistive technology)
2- (Databases) help people to search internet websites based on the key words and phrases

3- (search engine) is a database which includes all the items owned by a library
4- Small screens can make reading texts challenging and viewing complex graphics (easy)
5- Scanning (AR codes) to access content-related video, audio, and texts is one of the advantages of using mobile phones in education

Q6: Match

a)

1-MacOS	a-The operating system used on apple mobile devices
2-iOS	b-The operating system used on Microsoft PCs
3-Android	c-The operating system used on mobile devices other than apple products
4-Windows	d-The operating system used on Apple PCs

b)

1-<a>…	a-For creating paragraph
2-<i>… </i>	b-Change the text to italic
3-…	c-To create heading
4- …	d-Change the font size and color
5- …	e-To create hyper link

Model Answers

Q1

1-b, 2-a, 3-c, 4-c, 5-a, 6-c, 7-b, 8-a, 9-a, 10-c, 11-b, 12-d, 13-a, 14-b, 15-c, 16-a, 17-b, 18-a, 19-a, 20-c, 21-d, 22-c, 23-a, 24-d, 25-a, 26-b, 27-d, 28-c, 29-c, 30-c, 31-d, 32-a, 33-c, 34-a, 35-d, 36-a, 37-a, 38-c, 39-d, 40-a, 41-a, 42-a, 43-a

Q2

1-T, 2-F, 3-T, 4-F, 5-F, 6-T, 7-F, 8-F, 9-T, 10-F, 11-T, 12-T, 13-F, 14-T, 15-F, 16-T

Q3

1-Taha Hussien library, 2-Modem, 3-Artificial intelligence,

4-Artificial intelligence, 5-virtual reality (VR),

6-Robot operating system (ROS)

Q4

1-valuable, 2-findable, 3-credible, 4-usable, 5-accessible

Q5

1-Cutting age technology, 2-search engines, 3-library catalogue

4-difficult, 5-QR codes

Q6

a) 1-d, 2-a, 3-c, 4-b
b) 1-e, 2-b, 3-d, 4-c, 5-a

First Axis: The role of information and communications technology in our lives

"October"

Put (√) or (×):-

1- Kartik Sawhney created an app for the hearing impaired ( )

2- The Ministry of Manpower is working to develop its programs to help people with disabilities ( )

3- The Ministry of Manpower is working to develop its programs to help people with disabilities ( )

4- Kartik Sawhney has received several local and international awards for excellence in his work ( )

5- Rania Saleh is an Egyptian computer programmer ( )

6- IstemaiPlatform helped People with determination to find employment opportunities ( )

7- Kartik Sawhney co-founded the platform Istemai . ( )

8- In ٢٠١٦، Egypt introduced initiatives to integrate employees with .disabilities into the workforce ( )

9- Egypt provided grants and opportunities for talented people of .determination ( )

10- Kartik Sawhney has only a bachelor's degree in computer science ( )

11- Egypt played an important role in helping the visually impaired ( )

12- Kartik Sawhney's study was in the field of artificial intelligence ( )

13- Kartik Sawhney had no impact on people with disabilities ( )

14- Istemai Visual platform ( )

15- Uses Kartik Sawhney uses technology to help people with disabilities. ( )

16- A computer network connects computers together to share Important information and data ( )

17- does not allow wired devices . By connecting to the network ( )

18- Devices can be connected without wires or cables using waves Radio (wireless or wifi) ( )

19- Computers do not need different devices to connect to the network To transfer data ( )

20- Artificial intelligence(AI) .can be used to solve problems ( )

21- Wired networking uses wires and cables that are plugged into holes in devices . They are called ports ( )

22- Networks are groups of connected people or things Together for common goals ( )

23-Networks are electronic devices that create, process, and store information Its shapes vary ( )

24- Unlocking phones using the facial recognition system ( )

25-Virtual reality, augmented reality, and artificial intelligence are ...emerging future types of . Technology ( )

26- Augmented reality helps students become active participants in the learning process, and consolidates the information acquired in them Their minds. ( )

27- Artificial intelligence cannot work in the background of programs ( )

28- Virtual reality headsets provide students with a ٣٦٠-degree view of another world ( )

29- Augmented reality helps you sift through spam or match a paying . passenger with an available driver ( )

30- Future technology has no effect in improving the lives of people with . disabilities ( )

31-. There is no similarity or difference between the types of future technology ( )

32- Virtual reality you can From visiting a museum thousands of miles away or moving To an ancient archaeological site, going back thousands of years in history ( )

33-.There is no difference between augmented reality and virtual reality ( )

34- Multiple steps and considerations must be taken to evaluate this .advanced technology to suit people's needs ( )

35- User experience is linked to product development . And services ( )

36- It varies Technology Much improved assistance , but the goal is the same Improve independence person, and thus his integration into . society ( )

37- User experience describes how people use it The product, interaction with it, and how to evaluate them Their experiences. ( )

38- One of the criteria for evaluating advanced technology is that it is useful .and usable ( )

39- It is not necessary to determine the needs of people of determination regarding the use of technology and whether it is practical for them or .not ( )

40- It is not necessary to trust the quality of the company and its .technological products ( )

41- It is preferable to reconsider which assistive technology products are .working well and which are not working well And modify it to suit the . needs of the user ( )

42- To select more assistive technology products Benefit: You must be . aware of the person's abilities and challenges ( )

43- Cutting-edge technology Changes in life In ways it wasn't possible Its .perception, especially in the field of education ( )

44- Search engines are easy to use and very fast , and often return many . results ( )

45- Remember to use evaluation skills Your own information to ensure that . the content you choose is reliable and accurate And unbiased ( )

46- Databases are collections of information that are stored Usually in a computer system, it can be accessed .For a fee ( )

47- The database is a good place to search for information from magazines and newspapers . And reference books ( )

48- The Egyptian Knowledge Bank(EKB) is an example of a general . database that covers many topics ( )

49-.There are two types of databases, general and specialized ( )

50-.Public databases cover only one topic ( )

51-It may include searching . Library catalog : Newly published books only ( )

52-. When searching any database, it is preferable to use keyword search ( )

53-:You can use other fields available in the database, such as The name of the author or the title of the journal to narrow the scope of the search ( )

54-Specialized search engines help in searching for the required information ( )

55-.All online search results are reliable ( )

56-It is preferable to mention the references used at the end of your .research ( )

57-Speech assistance applications: They help students with nonverbal learning disorder participate in the classroom ( )

58-There is no difference between screen readers and smartphone .devices ( )

59- Be seen some that ease Access to Information may reduce from skills thinking and interaction social and who over a period concentration the people. ( )

60-One of the problems with mobile phones is being tempted to use them . for bad social or entertainment reasons ( )

61-There is difficulty creating short videos or taking photos of projects with mobile phones ( )

62- Mobile devices include smartphones, tablets, and e-readers. ( )

63- There is difficulty using smartphones and tablets to browse the Internet ( )

64-Electronic readers .devices such as tablets are mainly used for charting ( )

65-Technology applications for tablets and smartphones play a major role in the lives of people with disabilities ( )

66- Speech assistance apps can help students with nonverbal learning disorder participate . Inside the classroom ( )

67- One of the advantages of mobile phones is its use Spell checker or . Calculator ( )

b(Choose the correct answer from the following:-

1. Kartik Sawhney's application converts graphs into frequencies..................which ...allows the listener to hear the difference in .Information in the chart
   Visible Optical Audio
2. It is a platform that provides a program that changes digital texts into a .... format that can be used by Easily accepted by blind and visually impaired people.
   google Istemai our school
3. Kartik Sawhney obtained bachelor's and master's degrees in From Stanford .... .University, California, in the United States
   chemistry environment Science computer science
4. I-Stem ...platform includes opportunities .For people with disabilities
   For guidance and employment Training travel
5. It contains The Taha Hussein Library in the Library of Alexandria at .... includes special programs that convert text .to voice
   Screens Scanners Printers
6. Mr. Sawhney contributed to helping people .... by accessing visual .content
   Blind and visually impaired people Hearing impaired both of them
7. Kartik Sawhney is........................
   Programmer and computer expert Physicist The world of chemistry
8. Mr. Sawhney focused his studies on .... and the interaction between .humans and computers
   photographer artificial intelligence Website design
9. Egypt provided scholarships and opportunities for talented people from............................
   Painters Authors determination

10. Mr. Sawhney created applications that help .... people of determination
Blind people | Hearing impaired | None of the above

11. .... are groups of people or things linked together for common goals.
networks | Computers | Internet

12. .Computers connect together to share important information and data ....
networks | computer network | Internet

13. Wired networks use wires and cables that are plugged into slots in devices it's called ....
The switch | Server | Ports

14. Transfers the signal from a service provider .... Internet(ISP) into a digital signal that devices can .Receive it and get to know it
Modem | port | adapter

15. It works in a similar way .... For the hub, but it can send data to a device appointed via a network, which helps facilitate communication And speed it up
Modem | Distributor | Switch_

16. Smart devices because they can send data to a device .... appointed via a network, which helps facilitate communication And speed it up
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artificial intelligence | programming | networks

18. works to imitate voices by providing it with the tone of the natural human .... .voice
programming | artificial intelligence | networks

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٣D | bilateral | invisible

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Augmented reality | Virtual Reality | artificial intelligence

21. Users wear virtual reality to feel the experience of reality Default
Headphones | Screen readers | glasses

22. Virtual reality headsets made of............................
Cardboard | Plastic | Metal

23. learn The ability of a machine such as a computer to think and ....
Augmented reality | Virtual Reality | artificial intelligence

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25. Augmented reality depends on its use on .... or a tablet device, and this will display a three-dimensional model of what the world looks like Real

Old film camera | Smartphone camera | Digital camera lenses

26. combines the real world and virtual reality by adding .... computer-generated images

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Advanced technology | Website design | Assistive technology

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Microsoft group | Assistive technology | programming languages

30. gloves Smartfrom .... category

Advanced technology | ICT tools | Assistive technology

31. or deaf people to translate their signs instantly into text enables........................... .Spoken

Smart gloves | Smart Phones | Screen Readers

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search engines | Presentations | programming languages

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Internet | Databases | search engines

34. .... .An example of a general database that covers many topics

Google | Facebook | Egyptian Knowledge Bank

35. .Databases .... deal with only one topic

the public | Paper | Specialized

36. It is a database that includes all the sources and items .... contained in the library

Library catalogue | Text coordinator | Vol

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Complete sentences | key words | Symbols and numbers

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41. It is characterized by its portability, as it can be carried They can be placed horizontally, vertically, or laid flat, and many of them operate using touch technology

laptops | PC | Servers

42. Includes .... smartphones, tablets, and e-readers.

Desktop devices | Mobile devices | drawing tools

43. Electronic readers devices such as tablets are mainly used for......................

Writing articles | Chart | reading books

44. Although it is easy to access information using smartphones, reading texts and viewing graphs .... Complex matters are difficult through screens

Big | Small | 3D

45. Mobile devices offer other advantages beyond learning from them.....................

Scan QR codes | Listen to podcasts | both of them

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"October"

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3- The Ministry of Manpower is working to develop its programs to help .people with disabilities (√)

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13- .Kartik Sawhney had no impact on people with disabilities (×)

14- Istemai .Visual platform platform (×)

15- Uses Kartik Sawhney uses technology to help people with disabilities. (√)

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28- Virtual reality headsets provide students with a ٣٦٠-degree view of . another world (√)

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42- To select more assistive technology products Benefit: You must be . aware of the person's abilities and challenges (√)

43- Cutting-edge technology Changes in life In ways it wasn't possible Its .perception, especially in the field of education (√)

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48- The Egyptian Knowledge Bank(EKB) is an example of a general . database that covers many topics (√)

49- .There are two types of databases, general and specialized (√)

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52- . When searching any database, it is preferable to use keyword search (√)

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58- There is no difference between screen readers and smartphone .devices (×)

59- Some believe that easy access to information has reduced thinking and ...social interaction skills, and the extent of . People's attention span (√)

60- One of the problems with mobile phones is being tempted to use them . for bad social or entertainment reasons (√)

61- There is difficulty creating short videos or taking photos of projects with mobile phones (×)

62- Mobile devices include smartphones, tablets, and e-readers. (√)

63- There is difficulty using smartphones and tablets to browse the Internet . (×)

64- Female readers Electronic devices such as tablets are mainly used for .charting (×)

65- Technology applications for tablets and smartphones play a major role in the lives of people with disabilities (√)

66- Speech assistance apps can help students with nonverbal learning disorder participate . Inside the classroom (√)

67- One of the advantages of mobile phones is its use Spell checker or . Calculator (√)

b)Choose the correct answer from the following :-

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   Audio Optical Visible

2. ....It is a platform that provides a program that changes digital texts into a format that can be used by Easily accepted by blind and visually impaired people.

   our school **Istemai** google

3. Kartik Sawhney obtained bachelor's and master's degrees in....................... From .Stanford University, California, in the United States

   computer science environment Science chemistry

4. I-Stem platform includes opportunities......................For people with disabilities

   travel Training **For guidance and employment**

5. It contains The Taha Hussein Library in the Library of Alexandria at .... includes special programs that convert text .to voice

   Printers **Scanners** Screens

6. Mr. Sawhney contributed to helping people .... by accessing visual .content

   both of them Hearing impaired **Blind and visually impaired people**

7.

8. Kartik Sawhney is..............................

The world of chemistry — Physicist — Programmer and computer expert

9. Mr. Sawhney focused his studies on .... and the interaction between ٨- .humans and computers

Website design — artificial intelligence — photographer

10. ...Egypt provided scholarships and opportunities for talented people from

People of determination — Authors — Painters

11. .Mr. Sawhney created applications that help .... people of determination

None of the above — Hearing impaired — Blind people

12. are groups of people or things linked together for common goals ....

Internet — Computers — networks

13. .Computers connect together to share important information and data ....

Internet — computer network — networks

14. Wired networks use wires and cables that are plugged into slots in devices it's called..............................

Ports — Server — The switch

15. Transfers the signal from a service provider .... Internet(ISP) into a digital signal that devices can .Receive it and get to know it

adapter — port — Modem

16. It works in a similar way .... For the hub, but it can send data to a device appointed via a network, which helps facilitate communication And speed it up

_Switch — Distributor — Modem

17. Smart devices because they can send data to a device .... appointed via a network, which helps facilitate communication And speed it up

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networks — programming — artificial intelligence

19.works to imitate voices by providing it with the tone of the natural human .... .voice

networks | artificial intelligence | programming

20. Augmented reality displays a .... dimensional model of what the world looks like Real

invisible | 4D | 3D

21. People of determination can use assistants The two virtual personalities activated by .... to accomplish daily tasks

artificial intelligence | Virtual Reality | Augmented reality

22. Users wear virtual reality to feel the experience of reality Default

glasses | Screen readers | Headphones

23. Virtual reality headsets made of........................

Metal | Plastic | Cardboard

24. learn The ability of a machine such as a computer to think and ....

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25. An imaginary three-dimensional environment that allows .... users to explore and interact with their surroundings As if it were real.

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26. Augmented reality depends on its use on .... or a tablet device, and this will display a three-dimensional model of what the world looks like Real

Digital camera lenses | Smartphone camera | Old film camera

27.combines the real world and virtual reality by adding computer- .... generated images

artificial intelligence | Virtual Reality | Augmented reality

28. The latest and most advanced version of a service or product ....

Assistive technology | Website design | Advanced technology

29. Helps people of determination perform tasks that they find .... .difficult

Assistive technology | programming | Sites Design

30. It is considered software Screen magnification, hearing aids, and software ...that converts speech to text and text to audio from

programming languages | Assistive technology | Microsoft group

31. Smart glovesfrom .... category

Assistive technology | toolsICT | Advanced technology

32. text or enables deaf people to translate their signs instantly into.......................... .Spoken

Screen Readers | Smart Phones | Smart gloves

33. helps people search websites based on key words and .... phrases

programming languages | Presentations | search engines

34. are collections of information, usually stored in a computer .... system, and can be accessed .Free

search engines | Databases | Internet

35. .... .An example of a general database that covers many topics

Egyptian Knowledge Bank | Facebook | Google

36. .Databases .... deal with only one topic

Specialized | Paper | the public

37. It is a database that includes all the sources and items .... contained in the library

Vol | Text coordinator | Library catalogue

38. ...When searching in any database, it is recommended to use the search with

Symbols and numbers | key words | Complete sentences

39. To copy text from the Internet into a word processor, press the .... keys .on the keyboard

Ctrl+V | Ctrl+X | Ctrl+C

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41. To paste text into the word processor, press the .... keys on the .keyboard

<u>Ctrl+V</u> Ctrl+X Ctrl+C

42. It is characterized by its portability, as it can be carried They can be placed horizontally, vertically, or laid flat, and many of them operate using touch technology

Servers PC <u>laptops</u>

43. Includes .... smartphones, tablets, and e-readers.

drawing tools <u>Mobile devices</u> Desktop devices

44. Female readers ...Electronic devices such as tablets are mainly used for

<u>reading books</u> Chart Writing articles

45. Although it is easy to access information using smartphones, reading texts and viewing graphs .... Complex matters are difficult through screens

The trilogy <u>Small</u> The big one

46. ...Mobile devices offer other advantages beyond learning from them

<u>both of them</u> Listen to podcasts Scan QR codes

Model 1

Q1:- Put (√) or (×):-

1. There is difficulty creating short videos or taking photos of projects with mobile phones ( )
2. does not allow wired devices By connecting to the network ( )
3. The database is a good place to search for information from magazines and newspapers And reference books ( )
4. Awareness of a person's abilities and challenges helps determine the .most beneficial assistive technology products ( )
5. Kartik Sawhney's study was in the field of artificial intelligence ( )

Q2:- Choose the correct answer between brackets

1. All of the following are operating systems except.........................
   Android windows Word
2. .Smartphones and tablets feature .... screens
   normal quality low quality High quality
3. To cut text from the Internet into a word processor, we press the .... keys on .the keyboard
   Ctrl+V Ctrl+X Ctrl+C
4. Smart glovesfrom .... the category
   Assistive Technology ICT Tools Advanced Technology
5. .is the ability of a machine such as a computer to think and learn ....
   Augmented Reality Virtual Reality Artificial Intelligence

Q3:- Complete the following sentences with the appropriate answer between the words:-

(Switches - search engines - databases - speech assistance applications - Egyptian Knowledge Bank)

1. Helps students with nonverbal learning disorder participate........................... in the .class
2. Help .... People search websites based on key words and phrases
3. are collections of information, usually stored in a computer system, and .... .freely accessible
4. It contains websites that include augmented reality and virtual reality .... experiences in .Egypt
5. It works in a similar way to a hub, but it can send data to a specific .... .device over a network, which helps facilitate and speed up communication

Model 2

Q1:- Put (√) or (×):-

1. .Devices can be connected without wires using Wi-Fi ( )
2. There is difficulty using smartphones and tablets to browse the Internet ( )
3. Future technology has the potential to improve the education sector and .daily life ( )
4. Digital search tools make it difficult to search for the required .information ( )
5. We can use artificial intelligence(AI).to solve problems ( )
6. Istemai platform helped people with disabilities find employment opportunities ( )
7. It is not necessary to take the needs of people of determination into .consideration when evaluating technological products ( )

Q2:- Choose the correct answer between brackets

1. Mr. Sawhney helped people .... by accessing visual content

Blind and visually impaired people   hearing impaired   are both

2. Virtual reality headsets can be made from................................

Cardboard, plastic, metal

3. ....It enables the user to communicate with the computer without .the need to know its languages

Operating systems,   programming languages,   codes

4. Electronic readers devices such as tablets are mainly used for..........................

reading books   Chart   Writing articles

5. It is considered software Screen magnification, hearing aids, and software that converts speech to text and text to audio from..................................

Programming Languages   Assistive Technology   Microsoft Group

6. When searching in any database, it is preferable to use the search with ....

Keywords   Symbols and numbers   Complete sentences

7. Augmented reality displays a .... dimensional model of what the world looks like Real

Invisible   3D   4D

6. .Smartphones and tablets feature .... screens

normal quality   low quality   High quality

Model 3

Q1:- Put (√) or (×):-

1. Kartik Sawhney is a physicist ( )
2. The database is a good place to search for information from magazines and newspapers And reference books ( )
3. Most computers and applications work well regardless of the operating system and programming language used ( )
4. The specialized database covers only one topic, such as .entrepreneurship or law ( )
5. User experience is linked to product development And services ( )

Q2:- Choose the correct answer between brackets

1. To paste text into the word processor, press the .... keys on the keyboard
   Ctrl + v Ctrl + X Ctrl + C
2. Machine intelligence that can be used to solve problems................
   networks , artificial intelligence ، Programming
3. The latest and most advanced version of a service or product ....
   Assistive technology Website design Advanced technology
4. ....It is characterized by its portability , as it can be carried They can be placed horizontally, vertically, or laid flat, and many of them operate using touch technology
   Servers PC laptops
5. It is a database that includes all the sources and items .... contained in the library
   Folder Word Libraries catalogs

Q3:- Complete the following sentences with the appropriate answer between the words:-

Screen reader - Egyptian Knowledge Bank - Assistive Technology - Mobile Devices) (Hub -

1. ....includesmartphones, tablets, and e-readers
2. .... .is an example of public databases
3. Screen magnification software, hearing aids, and software that converts speech to text and text to audio are..
4. The............................allows wired devices to communicate On a network and transfer information to all devices .on that network
5. To listen to texts, people of determination use a..............................which reads the ، text out loud automatically

Model 4

Q1:- Put (√) or (×):-

1. Specialized search engines help in searching for the required information ( )
2. .One of the advantages of smartphones is listening to podcasts ( )
3. The general database covers only one topic, such as entrepreneurship or .law ( )
4. One of the problems with mobile phones is being tempted to use them for bad social or entertainment reasons ( )
5. Augmented reality displays a model ٣D of what the world looks like Real ( )
6. .Kartik Sawhney is a computer expert and programmer ( )
7. In wired networks, wires and cables are connected to slots in devices calledports . ( )

Q2:- Choose the correct answer between brackets

1. Istemai platform program converts text into a document with...............................
   Word PowerPoint Excel
2. ...Kartik Sawhney's app converts graphs into frequencies.......................allowing the . ...listener to hear the difference in ..Information in the chart
   Optical Audio Visible
3. QR codes can be scanned using mobile devices to access...............................
   Texts Video and audio clips A, B together
4. .Reading text and viewing complex graphs is difficult through screens
   triple ،small ،Big
5. Transfers the signal from a service provider .... Internet(ISP) into a digital signal that devices can . Receive it And get to know her
   Adapter Switch Modem
6. To copy text from the Internet into a word processor, press the .... keys on the .keyboard
   Ctrl+V Ctrl+X Ctrl+C
7. Examples include "virtual reality, augmented reality, and artificial .... ".intelligence
   augmented reality future technology Artificial intelligence
8. Works in a similar way.................. For the hub, but it can send data to a device .specified across the network
   Adapter modem router

Model answer (1)

Put (√) or (×):-	Choose the correct answer between brackets
(X)	Word
(X)	high quality
(√)	Ctrl+X
(√)	Assistive technology
(√)	artificial intelligence
Complete the following sentences with the appropriate answer	
Speech assistance applications	
search engines	
Databases	
Egyptian Knowledge Bank	
Switches	

Model answer (2)

Put (√) or (×):-	Choose the correct answer between brackets
(√)	Blind and visually impaired people
(X)	Cardboard
(√)	Operating systems
(X)	reading books
(√)	Assistive technology
(√)	key words
(X)	3D
	high quality

Model answer (3)

Put (√) or (×):-	Choose the correct answer between brackets
(X)	Ctrl+V
(√)	artificial intelligence
(√)	Advanced technology
(√)	laptops
(√)	Libraries catalogs
Complete the following sentences with the appropriate answer	
Mobile devices	
Egyptian Knowledge Bank	
Assistive technology	
Distributor	
Screen reader	

Model answer (4)

Put (√) or (×):-	Choose the correct answer between brackets
(√)	Word
(√)	Audio
(X)	A, B together
(X)	Small
(√)	Modem
(√)	Ctrl+C
(√)	Future technology
	Switch